# CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, November 29, 1906.

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## CONSTRUCTION NEWS.

### PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.) and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

| Bids close. | Work. | Place. | On file. | See issue |
|---|---|---|---|---|
| Dec. 1 | Elevator | Charleston, S. C. | S. | 11-15 |
| 11 | Suction dredges | Panama | S. & B. S. | 11- 8 |
| *11 | Canal | Troy, N Y. | P., S. & B. S. | 11-22 |
| *15 | Ditches | Glendive, Mont. | P., S. & B. S. | 11- 1 |
| *15 | Structures | Glendive, Mont. | S. & B. S. | 11-15 |
| *17 | Bridge | Fall River, Mass. | S. & B. S. | 11-22 |
| *20 | Sluice gates | Cody, Wyo. | S. & B. S. | 11-15 |
| *22 | Steel derrick | Philippine Islands. | S. | 11-22 |
| 22 | Cranes | Portsmouth, N. H. | S. | 11-29 |

*Work advertised in Engineering News.

### LIST OF CONTRACTS PENDING.

#### LIGHT, HEAT AND POWER PLANTS.

| Bids close. | Work. | Place. | On file. | See issue |
|---|---|---|---|---|
| Nov. 29. | Power | Peterboro, Ont. | | Nov. 1 |
| Nov. 29. | Water power | Ottawa, Ont. | | Nov. 15 |
| Dec. 3. | Light plant | Julesburg, Colo. | | Nov. 22 |
| | Advertised, Eng. News, Nov. 22 and 29. | | | |
| Dec. 4. | Electrical Supplies | Washington, D. C. | | Nov. 29 |
| Dec. 17. | Power-house | Sault Ste. Marie, Mich. | | Nov. 8 |
| | Advertised, Eng. News, Dec. 6 and 13. | | | |
| Dec. 26. | Power plant | Washington, D. C. | | Nov. 29 |
| | Advertised, Eng. News, Nov. 29 to Dec. 20. | | | |

#### BRIDGES.

| | | | | |
|---|---|---|---|---|
| Nov. 29. | Bridge | Gilroy, Cal. | | Oct. 25 |
| Nov. 30. | Bridge | Circleville, Ohio | | Nov. 15 |
| Dec. 3. | Bridge | De Funiak Springs, Fla. | | Nov. 8 |
| Dec. 3. | Bridges | Tipton, Ind. | | Nov. 29 |
| Dec. 3. | Bridge | North Yakima, Wash. | | Nov. 29 |
| Dec. 3. | Bridge | Grand Forks, B. C. | | Nov. 29 |
| Dec. 6. | Bridge | Prestonsburg, Ky. | | Nov. 29 |
| Dec. 15. | Bridge | Carthage, Tenn. | | Nov. 8 |
| | Advertised, Eng. News, Nov. 8 and 15. | | | |
| Dec. 15. | Bridge | Newport, Ind. | | Nov. 15 |
| | Advertised, Eng. News, Nov. 15. | | | |
| Dec. 17. | Bridge | Fall River, Mass. | | oNv. 15 |
| | Advertised, Eng. News, Nov. 15 to 29. | | | |
| Dec. 21. | Bridges | Kansas City, Mo. | | Nov. 29 |
| Dec. 27. | Bridge | Charleston, W. Va. | | Nov. 29 |
| | Advertised, Eng. News, Nov. 29 and Dec. 6. | | | |

#### BUILDINGS.

| | | | | |
|---|---|---|---|---|
| Nov. 29. | Buildings | Fort Ethan Allen, Vt. | | Nov. 1 |
| | Adverised, Eng. News, Nov. 1 to 22. | | | |
| Nov. 30. | High school | Jackson, Mich. | | Nov. 29 |
| Dec. 1. | Building | Raleigh, N. C. | | Nov. 1 |
| Dec. 1. | Church | Bandera, Tex. | | Nov. 22 |
| Dec. 3. | School | New York, N. Y. | | Nov. 22 |
| Dec. 3. | Leprosy station | Hawaii | | Nov. 1 |
| | Advertised, Eng. News, Nov. 1 and 8. | | | |
| Dec. 3. | Warehouse | Santa Fe, N. Mex. | | Nov. 15 |
| Dec. 3. | Building | Raleigh, N. C. | | Nov. 29 |
| Dec. 3. | Plans | Montesano, Wash. | | Nov. 29 |
| Dec. 4. | Y. M. C. A. building | Columbus, Ga. | | Nov. 29 |
| Dec. 4. | Heating | Frankfort, Ky. | | Nov. 29 |
| Dec. 5. | Hospital | New York, N. Y. | | Nov. 5 |
| Dec. 5. | Heating plant | Greensburg, Ind. | | Nov. 29 |
| Dec. 10. | Club house | Galena, Mo. | | Nov. 29 |
| Dec. 10. | Hospital | Carlisle, Pa. | | Nov. 29 |
| Dec. 10. | Locomotive shops | Moncton, N. B. | | Nov. 15 |
| Dec. 10. | Dwelling | Baltimore, Md. | | Nov. 15 |
| | Advertised, Eng. News, Nov. 15. | | | |
| Dec. 10. | Shops | Moncton, N. B. | | Nov. 22 |
| Dec. 10. | Mail-lift | Kansas City, Mo. | | Nov. 22 |
| Dec. 11. | Elevators | St. Joseph, Mo. | | Nov. 22 |
| Dec. 12. | Plumbing and heating | Washington, D. C. | | Nov. 29 |
| Dec. 15. | Office building | Washington, D. C. | | Nov. 22 |
| | Advertised, Eng. News, Nov. 22 to Dec. 13. | | | |
| Dec. 18. | Brewery | Fernie, B. C. | | Nov. 15 |
| Dec. 20. | Plans and specifications | Shreveport, La. | | Oct. 4 |
| Dec. 20. | Court-house | West Liberty, Ky. | | Nov. 22 |
| Dec. 30. | Manufacturing plant | Two Rivers, Wis. | | Nov. 29 |
| Jan. 2. | Post-office | Wausau, Wis. | | Nov. 29 |
| | Advertised, Eng. News, Nov. 29 and Dec. 6. | | | |
| Feb. 8. | Library, University | N. Dak. | | Nov. 15 |

#### WATER SUPPLY AND IRRIGATION.

| | | | | |
|---|---|---|---|---|
| Nov. 30. | Pumps, etc. | Washington, D. C. | | Nov. 29 |
| Dec. 1. | Pump well, etc. | Charleston, S. C. | | Nov. 15 |
| Dec. 1. | Water meters | Norwood, Ohio | | Nov. 22 |
| Dec. 3. | Water-works | Julesburg, Colo. | | Nov. 22 |
| | Advertised, Eng. News, Nov. 22 and 29. | | | |
| Dec. 3. | Pump | Lewiston, Idaho | | Nov. 22 |
| Dec. 3. | Pumps | Tacoma, Wash. | | Nov. 29 |
| Dec. 3. | Water-works | Westside, Iowa | | Nov. 29 |
| Dec. 4. | Water-works | Albany, Mo. | | Nov. 29 |
| Dec. 4. | Steam mains | Buffalo, N. Y. | | Nov. 29 |
| Dec. 4. | Pipe line | Camden, N. J. | | Nov. 22 |
| | Advertised, Eng. News, Nov. 22 and 29. | | | |
| Dec. 4. | Pipe, etc. | New York, N. Y. | | Nov. 29 |
| Dec. 4. | Aqueduct | New York, N. Y. | | Nov. 15 |
| | Advertised, Eng. News, Nov. 15, to 29. | | | |
| Dec. 5. | Pipe, etc. | New York, N. Y. | | Nov. 29 |
| Dec. 6. | Water-works | Bismark, N. Dak. | | Nov. 29 |
| Dec. 7. | Cisterns | Fort St. Philip, La. | | Nov. 22 |
| Dec. 8. | Water-works | Eureka Springs, Ark. | | Nov. 22 |
| Dec. 10. | Wells, pump, etc. | Ft. Bliss, Tex. | | Nov. 22 |
| Dec. 11. | Canal | Troy, N. Y. | | Nov. 22 |
| | Advertised, Eng. News, Nov. 22 and 29. | | | |
| Dec. 11. | Water-works | Plattsburg, Mo. | | Nov. 29 |
| Dec. 12. | Reservoir, etc. | Spring City, Pa. | | Nov. 29 |
| | Advertised, Eng. News, Nov. 29 and Dec. 6. | | | |
| Dec. 14. | High level sewer | Boston, Mass. | | Nov. 29 |
| | Advertised, Eng. News, Nov. 29. | | | |
| Dec. 15. | Pumps | Ft. Worth, Tex. | | Nov. 29 |
| | Advertised, Eng. News, Nov. 29 and Dec. 6. | | | |
| Dec. 15. | Air compressor | Ft. Worth, Tex. | | Nov. 29 |
| | Advertised, Eng. News, Nov. 29 and Dec. 6. | | | |
| Dec. 15. | Water-works | Fort Williams, Ont. | | Nov. 29 |
| | Advertised, Eng. News, Nov. 29 and Dec. 6. | | | |
| Dec. 15. | Excavation | Glendive, Mont. | | Nov. 1 |
| | Advertised, Eng. News, Nov. 1 to 29. | | | |
| Dec. 15. | Structures | Glendive, Mont. | | Nov. 8 |
| | Advertised, Eng. News, Nov. 8 to Dec. 6. | | | |
| Dec. 20. | Sluice gates | Cody, Wyo. | | Nov. 15 |
| | Advertised, Eng. News, Nov. 1 to 29. | | | |
| Dec. 22. | Pumping engines | Chicago, Ill. | | Nov. 29 |
| | Advertised, Eng. News, Nov. 29 to Dec. 20. | | | |
| Jan. 9 ('07). | Dam, etc. | Mitchell, Neb. | | Nov. 22 |
| | Advertised, Eng. News, Nov. 22 to Jan. 3. | | | |
| Jan. 10. | Water supply | Elkhart, Ind. | | Nov. 29 |
| Jan. 23 ('07). | Pipe | New Orleans, La. | | Nov. 15 |
| | Advertised, Eng. News, Nov. 15 to Jan. 17. | | | |

#### SEWERAGE.

| | | | | |
|---|---|---|---|---|
| Nov. 30. | Sewers | Elkhart, Ind. | | Nov. 29 |
| Dec. 1. | Sewers | Dermott, Ark. | | Nov. 29 |
| Dec. 1. | Sewers | Rock Island, Ill. | | Nov. 1 |
| Dec. 3. | Sewers | Washington, D. C. | | Nov. 15 |
| | Advertised, Eng. News, Nov. 15 and 22. | | | |
| Dec. 3. | Sewers | New York, N. Y. | | Nov. 22 |
| Dec. 3. | Sewers | Topeka, Kan. | | Nov. 29 |
| Dec. 3. | Sewers | Kokomo, Ind. | | Nov. 29 |
| Dec. 4. | Sewers | Cleveland, Ohio. | | Nov. 29 |
| Dec. 4. | Sewer | Summit, N. J. | | Nov. 29 |
| Dec. 5. | Sewers | Guthrie, Okla. | | Nov. 29 |
| Dec. 6. | Sewers | Birmingham, Ala. | | Nov. 29 |
| Dec. 6. | Sewers | Greenville, N. C. | | Nov. 15 |
| | Advertised, Eng. News, Nov. 15. | | | |
| Dec. 7. | Sewers | Lebanon, Ohio. | | Nov. 29 |
| Dec. 8. | Sewers | St. Clair, Ohio. | | Nov. 29 |
| Dec. 12. | Disposal plant | Spring City, Pa. | | Nov. 29 |
| | Advertised, Eng. News, Nov. 29 and Dec. 6. | | | |
| Dec. 15. | Sewers | West Seneca, N. Y. | | Nov. 15 |
| | Advertised, Eng. News, Nov. 15 to Dec. 13. | | | |
| Dec. 17. | Sewers | San Francisco, Cal. | | Nov. 29 |
| Dec. 18. | Sewers | Fairbury, Neb. | | Nov. 29 |
| Dec. 18. | Disposal plant | Gainesville, Fla. | | Nov. 29 |

#### STREETS AND ROADS.

| | | | | |
|---|---|---|---|---|
| Nov. 30. | Roads | Washington, Pa. | | Nov. 22 |
| Dec. 1. | Crossing | Williamsport, Pa. | | Nov. 1 |
| | Advertised, Eng. News, Nov. 1 and 8. | | | |
| Dec. 3. | Paving | South Bethlehem, Pa. | | Nov. 15 |
| Dec. 3. | Sidewalks | Montgomery, Ala. | | Nov. 22 |
| Dec. 3. | Grading, etc. | New York, N. Y. | | Nov. 22 |
| Dec. 3. | Road | Columbus, Ind. | | Nov. 29 |
| Dec. 3. | Paving | New Orleans, La. | | Nov. 29 |
| Dec. 3. | Macadam | Vernon, Conn. | | Nov. 29 |
| Dec. 4. | Macadam | Denton, Md. | | Nov. 29 |
| Dec. 4. | Sidewalks | St. Louis, Mo. | | Nov. 29 |
| Dec. 4. | Pipe line | Camden, N. J. | | Nov. 22 |
| | Advertised, Eng. News, Nov. 22 and 29. | | | |
| Dec. 7. | Paving | Tulsa, Ind. T. | | Nov. 22 |
| | Advertised, Eng. News, Nov. 22 to Dec. 6. | | | |
| Dec. 8. | Paving | Omaha, Neb. | | Nov. 22 |
| Dec. 8. | Paving | Delaware, Ohio | | Nov. 22 |
| Dec. 10. | Paving | Atlantic City, N. J. | | Nov. 29 |
| | Advertised, Eng. News, Nov. 29. | | | |
| Dec. 12. | Paving | Newark, N. J. | | Nov. 22 |
| | Advertised, Eng. News, Nov. 22 to Dec. 6. | | | |
| Dec. 12. | Paving | Troy, Ohio | | Nov. 8 |
| Dec. 24. | Grading | Madisonville, Ohio. | | Nov. 15 |

#### MISCELLANEOUS CONTRACTS.

| | | | | |
|---|---|---|---|---|
| Nov. 30. | Tunnel | Scranton, Pa. | | Nov. 15 |
| | Advertised, Eng. News, Nov. 15 and 22. | | | |
| Nov. 30. | Engineering supplies | Panama. | | Nov. 15 |
| Dec. 1. | Undergrade crossing | Williamsport, Pa. | | Nov. 1 |
| | Advertised, Eng. News, Nov. 1 and 8. | | | |
| Dec. 1. | Garbage reduction | Spain (Foreign). | | Oct. 11 |
| | Advertised, Eng. News, Oct. 4 and 11. | | | |
| Dec. 4. | Naval supplies | Washington, D. C. | | Nov. 8 |
| Dec. 4. | Naval supplies | Washington, D. C. | | Nov. 22 |
| Dec. 10. | Caisson, foundation | Philadelphia, Pa. | | Nov. 15 |
| | Advertised, Eng. News, Nov. 15 and 22. | | | |
| Dec. 11. | Railway | Belgium (Foreign) | | Nov. 15 |
| Dec. 11. | Suction dredges | Panama | | Nov. 8 |
| Dec. 11. | Levee | New Orleans, La. | | Nov. 22 |
| Dec. 11. | Naval supplies | Washington, D. C. | | Nov. 22 |
| Dec. 12. | Ship canal | Panama | | Oct. 18 |
| Dec. 12. | Reconstructing cribs | Cincinnati, Ohio. | | Nov. 15 |
| | Advertised, Eng. News, Nov. 15 to Dec. 6. | | | |
| Dec. 13. | Dredging | Mt. Pulaski, Ill. | | Nov. 22 |
| | Advertised, Eng. News, Nov. 22 to Dec. 6. | | | |
| Dec. 18. | Naval, Supplies | Washington, D. C. | | Nov. 22 |
| Dec. 19. | Canal work | Albany, N. Y. | | Nov. 22 |
| Dec. 19. | Steel stand-pipe | Guantanamo, Cuba. | | Nov. 15 |
| Dec. 19. | Telephone materials | Australia (Foreign). | | Nov. 15 |
| Dec. 20. | Sluice gates | Wyoming. | | Nov. 1 |
| | Advertised, Eng. News, Nov. 1 to 29. | | | |
| Dec. 20. | Barges | Vicksburg, Miss. | | Nov. 22 |
| | Advertised, Eng. News, Nov. 22 to Dec. 13. | | | |
| Dec. 21. | Rock removal | New York, N. Y. | | Nov. 22 |
| | Advertised, Eng. News, Nov. 22 to Dec. 13. | | | |
| Dec. 22. | Steel derrick | Philippine Islands. | | Nov. 22 |
| | Advertised, Eng. News, Nov. 22 and 29. | | | |
| Dec. 22. | Cranes | Portsmouth, N. H. | | Nov. 29 |
| Dec. 27. | Destructor plans | New York, N. Y. | | Nov. 29 |
| Dec. 28. | Dredging | New York, N. Y. | | Nov. 29 |
| | Advertised, Eng. News, Dec. 6 to 27. | | | |
| Jan. 9. | Monument | Mt. Vernon, Ind. | | Nov. 22 |
| Mar. 18 ('07). | Tunnel | New Zealand (Foreign). | | Sept. 13 |
| | Advertised, Eng. News, Sept. 13 to Mar. 14. | | | |
| Apr. 12 ('07). | Ditches | Brookings, S. Dak. | | Oct. 18 |

#### CIVIL SERVICE EXAMINATIONS.

| | | | | |
|---|---|---|---|---|
| Dec. 4. | Chief, Water Bureau | Philadelphia, Pa. | | Nov. 1 |
| | Advertised, Eng. News, Nov. 1. | | | |
| Dec. 5. | Aids | Washington, D. C. | | Nov. 8 |
| Dec. 5. | Arch. & Steel Draftsman | San Francisco, Cal. | | Nov. 22 |
| Dec. 10. | Manual training equipment | N. Y., N. Y. | | Nov. 29 |
| Dec. 12. | Hydrographic Surveyor | Cuba. | | Nov. 22 |
| Dec. 12. | Topograph. Draftsman | New York, N. Y. | | Nov. 8 |
| | Advertised, Eng. News, Nov. 8 and 15. | | | |
| Dec. 15. | Tracer | Albany, N. Y. | | Nov. 22 |
| | Advertised, Eng. News, Nov. 22. | | | |
| Dec. 15. | C. E. Draftsman | Albany, N. Y. | | Nov. 22 |
| | Advertised, Eng. News, Nov. 22. | | | |
| Dec. 15. | Bridge Designer | Albany, N. Y. | | Nov. 22 |
| | Advertised, Eng. News, Nov. 22. | | | |
| Dec. 15. | Asst. Civil Engr. | Albany, N. Y. | | Nov. 22 |
| | Advertised, Eng. News, Nov. 22. | | | |
| Dec. 15. | Arch. Draftsman | Albany, N. Y. | | Nov. 22 |
| | Advertised, Eng. News, Nov. 22. | | | |


## REGARDING NEW PROJECTS

ENGINEERING NEWS desires to obtain the **earliest possible reliable information** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

ADDRESS THE

**Construction News Department**

## RAILWAYS.

*The names of parties awarded contracts are printed in capital letters.*

ANNAPOLIS, WASHINGTON & BALTIMORE.—This company probably will replace its present tracks with 80-lb. steel rails. J. G. Masterson is Secy. and Gen. Mgr., Cleveland, Ohio. Company operates 21 miles of railroad.

BALTIMORE, FREDERICK & HAGERSTOWN.—Company has filed a mortgage in Frederick County, Md., for $15,000,000 to secure an issue of bonds, the proceeds of which are to be applied to the construction of the road from Baltimore to Hagerstown, Md., 80 miles. A portion of the line between Frederick and Hagerstown has been built. James E. Ingram, Jr., Ingram Block, Baltimore, Md., is Pres.

BROCKVILE, WESTPORT & NORTHWESTERN.—Application will be made to the Dominion Parliament on behalf of the Brockville, Westport & Northwestern Railway Co. for an extension of time for the construction of its road. Company now operates 45 miles of line between Brockville and Westport. W. J. Curle is Supt., at Brockville.

BROWNSVILLE, HIDALGO & NORTHERN.—Final survey is under way from Corpus Christi, Tex., to Brownsville. E. B. Gore, Ch. Engr., Brownsville, Tex., advises us that contracts probably will be let soon for building the proposed line from Brazos Santiago to Hidalgo, via Brownsville, a distance of 84 miles. Surveys have been run and right-of-way nearly all secured. Capital is obtained. There will be heavy grubbing, but light earthwork in construction of the road. It was recently announced that this company would also build a line about 140 miles long from Brownsville to Corpus Christi, Tex., and from Corpus Christi to Houston, 300 miles. Uriah Lott is Pres., at Brownsville.

CANADIAN NORTHERN ONTARIO.—We are officially advised that grading on the James Bay Ry. is nearly completed. It will extend from Toronto, Ont., to the Moose Mountains, with branches to Sudbury and Key Harbor, a total of about 285 miles. Right-of-way is obtained and surveys made. The section between Toronto and Parry Sound, 149 miles, was opened for traffic on Nov. 19. ANGUS SINCLAIR, Parry Sound, has general contract for 75 miles, between Parry Sound and French River. On this contract the grading is nearly finished and 17 miles of track are laid north of Parry Sound. The NORTHERN CONSTRUCTION CO. has contract for grading on balance of line. T. H. White, Toronto, is Ch. Engr.

CANADIAN NORTHERN.—McKenzie & Mann, of Toronto, Ont., who control this railway, will ask Parliament to grant them a large extension of their rights to construct railroad lines. They have given notice of their intention to apply for legislation giving them the right to practically gridiron Ontario and the Northwest with branch lines. Authority is sought for the following branches for the Canadian Northern Ontario Railway Co.: From Washago westerly to Lake Huron near Kincardine. From Arnprior southerly to St. Lawrence River between Kingston and Brockville. From Pembroke southwesterly to Lake Ontario between Toronto and Belleville. From Toronto-Ottawa line northwesterly to Georgian Bay near Collingwood or Owen Sound. From Toronto-Ottawa line westerly, passing through or near Toronto, Hamilton and London, to Windsor, with branches to St. Thomas and Sarnia, and a branch or loop north of Toronto. From Niagara River northwesterly, passing through or near Hamilton to Lake Huron near Goderich. From Lake Erie west of Port Colborne, northerly passing through or near Brantford or Berlin to Georgian Bay. From a point near Washage to the Georgian Bay east of Collingwood. From Montreal-Ottawa line north of Montreal, westerly to connect with the authorized line in the County of Leeds or Lanark.

In the Northwest the following extensions of the Canadian Northern are asked for: A branch from the line at or near Humbolt in the Province of Saskatchewan, in a southwesterly direction to Calgary. A branch to the Qu'Appelle, Long Lake & Saskatchewan Railroad, between Craik and Baldworth. A branch from a point on its line at Humbolt northwesterly to Township 43. A branch from a point on the railway at South Battleford in a westerly direction to a point in Township 44, Range 27. A branch from its line at Strathcona southerly to Calgary. A branch from Regina southwesterly to a point on the International boundary. From a point at or near Saskatoon southwesterly to a point on the Saskatoon River. From a point on its authorized line at or near Edmonton, thence by the most feasible route to a point on the Pacific Coast. From a point on its authorized line near the forks of the Athabasca and McLeod Rivers southwesterly to the headwater of the McLeod River. From Battleford westerly a distance of 100 miles.

CHICAGO, MILWAUKEE & ST. PAUL.—MICHAEL JENNINGS, Spokane, Wash., has received contract for the construction of 150 miles of the coast extension between Whitehall and Harlowtown, Mont. Much of this is heavy grading, and there will be a number of tunnels. The longest of these will be 576 ft. in length, and the shortest 160 ft.

It is announced that "contract has been let to NELSON BENNETT, of Spokane, to construct a tunnel 8,750 ft. long through the Bitter Root mountain range, between the States of Montana and Idaho. In addition to this work Mr. Bennett has contracts for grading in Montana and Idaho, both east and west of the tunnel. This grading will average 100,000 cu. yds. to the mile, nearly all of which is solid rock. On this stretch of roadway are a number of shorter tunnels and some heavy trestle work. Work is to begin shortly."

CHICAGO, ROCK ISLAND & PACIFIC.—It is announced that the company has issued orders for new equipment, to cost $5,000,000. This is in addition to orders previously given this year, aggregating $3,000,000. Included in the new equipment are 2,000 40-ton box cars, 250 stock cars, 1,000 ballast cars, 450 coal cars, 300 flat cars, 2,540 hopper cars and nearly 100 passenger, postal and baggage cars. All the new passenger cars are to have steel underframe construction and the new mail cars are to be all steel.

CRYSTAL RIVER & SAN JUAN.—This company, which has been incorporated in Colorado, proposes to build a line 15 miles in length from Placita, the terminus of the Crystal River Railroad, to Marble, Gunnison County, to reach marble quarries. Capital stock, $100,000. Incorporators: C. F. Mink, S. I. Heyn, T. A. Hughes, G. H. Hill, B. H. Giles, W. F. Schuyler and H. P. Lowe, of Denver.

DAYTONA, DE LAND & ST. JOHNS RIVER.—A. J. Morgan, Secy., at Daytona, Fla., informs us that contracts will be let for building this company's line from Daytona to De Land and St. Johns River connection, 27 miles, next summer. Right-of-way is partly secured. Capital is now ready. Surveys are made. Motive power will be steam for freight service and motor for passenger service. W. J. Morgan is Pres. and D. D. Rogers, Ch. Engr., at Daytona, Fla.

ELKHORN SOUTHERN.—We are officially advised that this railway is to be a part of the South & Western Ry. Survey has been made and right-of-way and capital secured. Noted fully on Oct. 25.

GREENVILLE & ROLLING FORK.—Contracts will be let about Jan. 1 for building this road from Greenville via Leland to Rolling Fork, Miss., 61 miles. Surveys have been completed and the right-of-way has been secured. W. R. Barksdale, Memphis, Tenn., is Pres.

IOWA & NORTHWESTERN.—The EMPIRE RAILWAY CONSTRUCTION CO. has been incorporated in Iowa to build the Iowa & Northwestern Railroad from Waterloo southeast to Stanwood, Iowa, about 100 miles. An extension from Waterloo north to Austin, Minn., is proposed. The capital stock of the construction company is $250,000 and the officers are: George E. Armstrong, Jr., Pres.; George H. Myers, Vice-Pres.; William H. Bristol, Secy. and Treas. Headquarters, Waterloo, Iowa. Noted on Nov. 1.

LAKE CREEK & COEUR D'ALENE.—Survey has been made from Lockwood, Wash., to Lake Creek Bay, Idaho, 17 miles, "merely to protect rights of parent corporation, the O. R. R. & Nav. Co. in that district, but construction is not contemplated." The road is a Harriman line. J. P. O'Brien is Pres. and G. W. Boschke is Ch. Engr., both with headquarters at Portland, Ore.

LEXINGTON & EASTERN.—W. A. McDowell, Gen. Mgr., Lexington, Ky., advises us that "the report that we were about to extend our line east from Jackson, Ky., is an error. We hope, however, to make this extension next year." Noted on Nov. 1.

LOUISVILLE, NEW ALBANY & CORYDON.—This company will extend its line from Corydon, Ind., to New Albany by way of Lonesville, provided a 2% subsidy is voted in Harrison and Franklin Township, in Harrison County, and to operate an electric line. This action was taken at a stockholders' meeting in Corydon a few days ago, when the officers of the road were authorized to proceed with the project. Surveyors are already at work making a preliminary survey, and it is expected that if the tax is voted work will be commenced on the new line early next spring. The company operates a steam line extending from Corydon to Corydon Junction, eight miles, and also owns a spur running from Corydon east four miles to the King's Cave stone quarry, which will be utilized in the proposed electric line, leaving but 16 miles of road to build. McKinley Boyle is Pres. and Gen. Mgr., Corydon, Ind.

MISSISSIPPI CENTRAL.—James Archbald, Ch. Engr., Hattiesburg, Miss., informs us that company has already built ten miles from Hattiesburg southeast toward the Gulf and is now surveying eight miles of additional line. Contract for this section will be let very soon.

NEVADA CENTRAL.—This company has been incorporated under the laws of New Jersey to build a railroad in Nevada. Capital stock, $750,000. Incorporators: Charles Adamson, M. H. Leonard, William E. Stokes, 119 South Fourth St., Philadelphia, Pa.; Norman Grey, 127 Market St., Camden, N. J.; Horace G. Williams, St. Savida, Pa. Principal office, Camden, N. J. The road is to be built from a connection with the Southern Pacific at Battle Mountain, Nev., to Austin, a distance of 24 miles.

OKLAHOMA NORTHERN.—Incorporated in Oklahoma to build a railroad from Thomas, Custer County, northwest to Taloga, Dewey County, 35 miles. Capital stock, $1,000,000. Incorporators: A. A. Patterson and D. S. Patterson, of Benton Harbor, Mich.; N. J. Shupe, of Chicago; C. D. Nichols, of Oklahoma City, and H. F. Swartz, F. L. Black and A. W. Dunnigan, of Taloga, Okla.

PEORIA RAILWAY TERMINAL CO.—Incorporated in Illinois, with a capital stock of $1,000,000, to acquire the Peoria & Pekin Terminal Railway, which is to be sold under foreclosure soon. Incorporators: Thomas A. Grier, Frederick H. Smith, William Jack, Theodore J. Miller, H. Frederick Steele, William J. Jack, of Peoria, and William J. Conzelman, Pekin, Ill. Headquarters, Peoria, Ill.

PORT ARTHUR & HOUSTON SHORT LINE.—A. O. Blackwell, Secy., La Porte, Tex., advises us that company probably will let contracts about Dec. 30 for construction of its line. As noted last week, this company has made application to the Railroad Commission of Texas for authority to issue bonds in amount of $20,000 a mile on its proposed line. It will extend from Port Arthur, Tex., west via Hamshire, Wallisville and La Porte, to Houston, Harris County, 96 miles. Surveys have been completed and contracts made for the greater part of the right-of-way, depot and terminal grounds. This line passes through the richest portion of the rice belt of Texas. Its maximum grade will be 0.2%. Steel drawbridges will be required at crossings with Taylor and Cedar Bayous, and the Trinity and San Jacinto Rivers. F. J. Hart, St. Louis, is Pres.; C. S. Cleaver is Vice-Pres., and H. Falkenberg is Ch. Engr., Port Arthur, Tex.

SAN PEDRO, LOS ANGELES & SALT LAKE.—A branch line will be built by Senator W. A. Clark, 49 Wall St., New York, from Tintic Junction (Robinson post-office), Utah, to the mines at Deep Creek. Construction probably will begin in January. It will be about 75 miles long and a feeder to the S. P., L. A. & S. L. R .R., of which E. G. Tilton is Ch. Engr., at Los Angeles.

ST. MARYS & WESTERN ONTARIO.—We are officially advised that this company has located the line between St. Marys, Ont., and Embro, which will be the first section for which contract is to be let in the spring of 1907. Distance is 15 miles. The line will connect with the Canadian Pacific Rv. and will be operated by that company. J. Chalmers is Pres.; J. G. Macklin is Ch. Engr., St. Marys, Ont.

SOUTHERN.—W. J. OLIVER & CO., Knoxville, Tenn., have been awarded a contract by this railway company to double-track its line from Charlotte, N. C., to Atlanta, Ga. Construction will begin in December or January.

WABASH.—The Pittsburg "Dispatch" on Nov. 21 stated that "the Wabash officials are planning to double-track the Wheeling & Lake Erie from Pittsburg Junction to Huron Junction, at a cost of $3,404,550. It is announced also that the automatic blocks and signals required for 124 miles of the road will cost $124,000 in addition to the cost of the other improvements. It is claimed that more business is handled over this stretch of of single track than on any other of the same length in the world, and that a double-track would mean a great saving in money as well as a further increase in business." A. O. Cunningham is Ch. Engr., at St. Louis.

WEST VIRGINIA & INTERIOR.—We are officially advised that this company is running preliminary surveys for its proposed line from New Martinsville to Middlebourne, W. Va., 15 miles. Right-of-way and capital are partly secured. The line is to be narrow-gage. Thomas P. Jacobs is Pres., at New Martinsville.

WESTERN & GULF.—G. D. Allen, Ch. Engr., Cusseta, Ga., informs us that this company will place a party in the field at once to survey the line from Americus to Hawkinsville, Ga. Headquarters are at Americus, Ga. Noted fully on Oct. 11.

YANKTON SOUTHERN.—Fremont Hill, Pres., Yankton, S. Dak., informs us that this company, recently chartered, proposes to build a railroad from Yankton, S. Dak., to Galveston, Tex. The Board of Directors consists of Robert J. Gamble, W. J. Fantle and Isaac Piles, of Yankton; Fremont Hill, Jesse Lowman, Thomas R. Paxton, Alfred Hill, John W. Warrington and William Cooper Proctor, of Cincinnati, Ohio. Capital stock, $100,000.

## ELECTRIC RAILWAYS.

*The names of parties awarded contracts are printed in capital letters.*

TROY, N. Y.—The Troy, Rensselaer & Pittsfield R. R. has been purchased by a strong syndicate composed of prominent New York and Connecticut capitalists. It is proposed to procure franchises in the cities of Troy and Rensselaer and through the intermediate towns in Rensselaer County. A double-track electric railroad will be constructed between Troy and Rensselaer and to the Massachusetts line to connect with the Pittsfield trolley system. A. W. Paige, Bridgeport, Conn., has been elected president of the new company.

JOHNSTOWN, PA.—The Johnstown, Ebensburg & Northern Elec. R. R. Co. probably will award contracts in January for the construction of its line. W. E. Hildebrand, Gen. Mgr., Johnstown, desires to correspond with manufacturers of railway materials, contractors, etc.

NEW CASTLE, PA.—The New Castle & New Wilmington Ry. Co. plans to begin construction work early in the spring. Officers have been elected as follows: J. H. Veazey, Pres.; J. J. Ashenhurst, Secy.; G. H. Getty, Treas.

SANDY SPRING, MD.—The Sandy Spring Railway Co., it is reported, will build an electric railway from Chevy Chase Lake to Ellicott City, Md., connecting with the Capitol Traction Co. lines in Washington and with the United Railways of Baltimore. The line will run via Kensington, Sandy Spring and Ashton and will also pass near Wheaton, Norbeck and Olney in Montgomery County, and Highland, Clarksville and St. Charles College in Howard County. The directors are Charles F. Brooke, Pres., Sandy Spring, Md.; B. H. Warner, Vice-Pres., Washington, D. C.; Allen Farquhar, Treas., Sandy Spring, Md.; R. H Phillips, Secy and Mgr., 1410 H St., N. W., Washington; Spencer C. Jones, Rockville, Md.; Harold Hading, Ellicott City, Md.; Gist Blair, Silver Spring, Md.; Walter A. Johnson, Kensington, Md., and W. C. Robinson, Baltimore, Md. The company announces the sale of $500,000 of bonds to provide a portion of the fund for building and operating its line.

CHRISTIANSBURG, VA.—We are officially advised that the Montgomery Traction Co., of Christiansburg, which was recently chartered, will let contract to build a line two miles long, as soon as preliminary arrangements are made. The line will run from town to Norfolk & Western Ry. station. Capital, $10,000 to $25,000. C. A. Johnston is Pres.; E. S. Hagan, Vice-Pres.; M. H. Tompkins, Secy.; C. L. Wade, C. W. Surface, A. A. Phlegar, of Christiansburg, and W. L. Hickok, of Cambria, are the incorporators. Stock is all subscribed, but additional capital is needed to enlarge power plant. Right-of-way is secured and surveys have been run.

FORT MYERS, VA.—The S... & Ice Co. may build an elec... Power ...tween Fort Myers and Fort ...way be... M. Gardner is Secy. and ... M. ... Myers. ... Fort

MASSILLON, OHIO.—We are ... advised that the Osborn Engineering ... land, is making preliminary su... Cleve... Massillon & Northern Ry. line, ... the run from Massillon to Akron. ... will ... 25. ... Oct.

SPRINGFIELD, OHIO.—The ...field, Wilmington & Cincinnati Electric ... has been incorporated in Ohio, with ...,000 capital stock, by George F. Parr... Frederick Gargenbire, William C. Mo... Von Den Steinen, Richard Inglis, ... W. Tyler and Horace Andrews. The co... proposes to build an electric line ... Springfield, Ohio, with Cincinnati, ... the counties of Clark, Greene, Cl... ren and Hamilton, with a branch ... main line, in Greene County, to ... headquarters of the company are ... field.

CLEVELAND, OHIO.—J. Henry ... Jr., Secy. of the Cleveland, Brooklyn ... ria Ry. Co. has stated, according ... press reports, that "the company ... cured all the right-of-way necessary ... construction of the proposed tr... from Cleveland to Elyria, and that ... being received for the constru... He stated that actual work on the b... of the line would be commenced just ... as the weather would permit.

The proposed route is down the ... pike to Stonesville, then west throu... Columbia and North Eaton to Elyria. All preliminary engineering work has b... completed, and the company is now ... arrangements for the necessary ... on such portions of the route as need... The preliminary capital stock of the com... is $100,000. The directors have not decided upon the permanent capitalization and bond issue, but it is thought that it will be enlarged to $1,000,000 stock and an equal amount of bonds. The officers are: ... J. Breitinger, Pres.; B. E. Ottman, Treas.; J. Henry Knisely, Jr., Secy."

The newly incorporated Cleveland, Alliance & Mahoning Valley Electric Railway Co. has closed a deal for the purchase of the old line of the Baltimore & Ohio R. R. between Ravenna and Newton Falls, Ohio. From Newton Falls the line extends to Leavittsburg, where inter-traffic arrangements will be made to cover Warren and Youngstown. The track between Ravenna and Newton Falls was never torn up by the Baltimore & Ohio Co., which operates a few local trains over it daily, and that much of the proposed new electric line therefore is already built. From Ravenna south the Alliance division passes through Rootstown, from which place it was originally intended to build it through Atwater. The junction of the two divisions will be at Ravenna. J. W. Holcomb, of Cleveland, is promoting the road.

INDIANAPOLIS, IND.—The Indianapolis & Cincinnati Traction Co. will construct an extension to Cincinnati soon. Charles L. Henry is Pres. and Gen. Mgr., Traction Terminal Bldg., Indianapolis.

EAST ST. LOUIS, ILL.—The East St. Louis City Council has passed an ordinance providing that all street cars in East St. Louis shall be equipped with power brakes on and after July 1, 1907.

INDEPENDENCE, KAN.—Contract will be let soon for preparing roadbed and subgrade of approximately 50 miles of road for the Southwestern Traction Co., between Independence and Chanute, Kan. Specifications, etc., at office of Cudworth, Axtell & Co., Kansas City Life Bldg., Kansas City, Mo., who have general contract. The line is to extend from Independence to Fort Scott, Kan., 125 miles. G. N. Lindsay, Chanute, is Pres. Surveys are made, capital obtained and right-of-way secured. Advertised in Engineering News on Nov. 1.

MINNEAPOLIS, MINN.—The Minneapolis & St. Paul Suburban Railway, a subsidiary of the Twin City Rapid Transit Co., has purchased the North Side St. Ry. Co., the last remaining independent line running out of Minneapolis. The purchase price is withheld. A. B. Robbins, former owner of the line, had secured franchises from Anoka and Osseo, two prosperous towns near Minneapolis, and was about to extend his line. Its purchase by the Twin City interests means greater extensions than originally planned. The suburban feature of the Twin City operation is of increasing importance, and during 1907 several lines serving the country immediately north and west of Minneapolis probably will be extended and improved. D. W. Dozier is Ch. Engr. of the Twin City Co., at Minneapolis.

SIOUX, NEB.—Joseph A. Foye, of Sioux City, Iowa, has purchased the Sioux City, Homer & Southern Ry. This line was completed several years ago from South Sioux City (Sioux post-office), Neb., to Dakota City, but was never in active operation. The line will be extended from Dakota City to Homer, Neb., soon. The railway line will be about 16 miles long.

WAYNESVILLE, MO.—The Ozark Transit Co. has been incorporated with a capital of $50,000, it is proposed to construct an interurban line from Waynesville, Mo., through the counties of Miller and Cole, touching Jefferson City, and from thence through Texas County, in a southerly direction to Mountain Grove, in Wright County, Mo. The line will be about 100 miles long. J. J. Burns, of Webster Grove., Mo.; Warren E. Burns, Philadelphia; E. A. Lee, of St. Louis, Bertram Brown, of Glendale, Mo., and G. W. Gan, of Waynesville, Mo., are the stockholders.

TECUMSEH, OKLA.—The Tecumseh & Norman Traction Co. has been chartered, with $1,000,000 capital, to build a line from Tecumseh to Norman. Estimated cost, about $650,000. The incorporators are Geo. Weed,

of New York Samuel B. Mitchell, Charles G. Stanford, Martin H. Tennison and James T. Butler of Tecumseh.

PROSSER, WASH.—The Prosser Traction Co. has been incorporated by Frederick Finn, J. W. Collotte, G. A. Todd, George E. Boomer and F. A. Jeune. The capital stock is $150,000. The company is to build and operate an electric railway through the streets of Prosser and an interurban line to the proposed North Coast railway station, 1½ miles across the Yakima River; northward to Euclid, seven miles northwest, and eventually to the Columbia River on the east.

ALAMEDA, CAL.—The City Council has decided grant F. M. Greenwood, who, a number months ago, secured a franchise to operate an electric railway here, further time to ce the guarantee bond of $50,000.

SAN DIEGO, CAL.—The City Council has been petitioned by the San Diego Electric Railway Co. for franchises to operate and construct three new lines of railway in the city. E. Warren is Gen. Supt.

SAN BERNARDINO, CAL.—The San Bernardino Valley Traction Co. has secured the right-of-way from Colton to Riverside, and bought the franchise to do business in that city. The line will be built within a year, according to A. C. Denman, Jr., Pres.

POMONA, CAL.—Franchise for the construction of an electric railway through Holt, Garey and Fifth Aves., and Second St. has been sold to the Pacific Electric Ry. Co., which is now under bond to begin work of building the railroad within four months from Nov. 7, and to have three miles of railway in operation in Pomona within one year. The bonds are to be forfeited if these terms are not complied with. George E. Pillsbury is Ch. Engr., at Los Angeles.

SALT LAKE CITY, UTAH.—H. B. Clark, of this city, has been granted a franchise by the Board of County Commissioners for an electric railroad between Salt Lake, Bingham, Garfield and Bingham Junction.

Franchise was also granted by the Board to the Utah Light & Railway Co. for a line between Salt Lake, Sandy, Halliday, Garfield and Bingham Junction. R. S. Campbell is Gen. Mgr.

## LIGHT AND POWER PLANTS.

*The names of parties awarded contracts are printed in capital letters.*

MANCHESTER, CONN.—The Manchester Light & Power Co. will erect a power station on Hilliard St. E. E. Segar is Mgr.

BUFFALO, N. Y.—The Economic Power & Construction Co. will operate a steam heating plant for the purpose of piping heat to the houses of the Elmwood Ave. district. William K. McFarlin, of East Orange, N. J., is Pres.

COEYMANS, N. Y.—The West Shore Electric Lighting Co. has been incorporated for the purpose of lighting the towns of Coeymans and New Baltimore with electricity. The directors are: John N. Briggs, Charles Van Hoesen, Coeymans; Arthur Hartt, Herbert Layman, James H. Cochrane, of Ravens, and William H. Baldwin, of New Baltimore.

HARRISON, N. Y.—The General Electric Co. of this city, will add another story to its new 2-story reinforced concrete steel building at Bergen and Fifth Sts. The contract has been awarded to the AMERICAN CONCRETE STEEL CO., of Newark, N. J. Estimated cost, $18,800. The building will be 250 × 80 ft.

LE ROY, N. Y.—The Independent Natural Gas Co. has been incorporated with a capital of $300,000, for the purpose of drilling for natural gas. F. C. Southerland, E. L. Vexina and L. L. Brown, all of Canandaigua, are directors.

ROCHESTER, N. Y.—Plans have been filed by the Rochester Railway & Light Co. for the erection of its new power station on Hastings St., Glendale Park and Ravine Ave. It is to be of reinforced concrete, and the estimated cost is $57,700. Sellers & Ripley, Girard Bldg., Philadelphia, are Archs. R. M. Searle is Mgr.

JERSEY CITY, N. J.—We are officially advised that the contract for the erection of the power-house for the Hudson Co. at Bay, Green, First and Washington Sts. has been awarded to A. R. WHITNEY, JR., & CO. It is to be a 4-story brick, stone and fireproof building, 185 × 215 ft. Robins & Oakman, 27 East 22d St., are Archs. Estimated cost, $325,000.

WASHINGTON, D. C.—Bids are asked by Elliott Woods, Supt. of the U. S. Capitol Buildings and Grounds, until noon, Dec. 26 for erection of heating, lighting and power plant for the Capitol Building. E. A. Hitchcock, Secy. (Advertised, Engineering News.)

WASHINGTON, D. C.—Bids are asked at the Bureau of Supplies and Accounts, Navy Dept., until Dec. 4, for furnishing electrical supplies to various Navy Yards. E. B. Rogers is Paymaster-Gen.

LYNCHBURG, VA.—The Home Acetylene Light Co. will enlarge and improve its plant here. C. H. Almond is the Pres.

PULASKI, VA.—The city contemplates establishing a power plant near this place to utilize water power for generating electricity to run the electric light and water-works plants.

BIRMINGHAM, ALA.—The Birmingham Ry., Light & Power Co. is considering the erection of an immense power plant. Estimated cost, $1,500,000. N. M. Unrath, Ch. Engr.

GLEESON STATION, TENN.—The Gleeson Water & Light Co. will not install its new electric light plant until next spring. W. H. Williams is Gen. Mgr.

MIDDLEVILLE, KY.—The capital stock of the Middleville Electric Light Co. will be increased from $4,000 to $12,000 for the purpose of improving its plant. David E. Ford is Pres. and Gen. Mgr.

CARROLLTON, KY.—Bids are asked by William G. Schuerman, Mayor, until Dec. 5 for $25,000 of bonds to be issued for repairing and improving the electric light plant.

GREENSBURG, IND.—The contract for the erection of the power plant of the Indianapolis, Newcastle & Toledo electric line, to be erected west of this city, has been awarded to PULSE & PORTER, of Greensburg. The contract price is $40,000, which does not include a large concrete smoke stack.

RICHMOND, IND.—The City Electric Light & Power Plant is to be improved here at a cost of $20,000. J. M. Weibel is Ch. Engr.

SAULT STE. MARIE, MICH.—Bids are asked until 1 p. m., Dec. 17, at office of L. H. Davis, Ch. Engr. of The Michigan-Lake Superior Power Co., Sault Ste. Marie, Ont., for constructing the reinforcement of the company's power-house at Sault Ste. Marie, Mich.. (Advertised, Engineering News.)

PELLSTON, MICH.—It is reported that the Pellston Electric Co. will extend its transmission line from Mackinaw to Petosky, and will furnish electricity for lighting and power to all the cities between. F. E. Hatch is Mgr.

IRON MOUNTAIN, MICH.—It is reported that Alfred Glass and associates of Detroit, will erect a gas plant here.

URBANA, ILL.—The plant of the Urbana Light, Heat & Power Co. is to be rebuilt. W. J. Ferris is Pur. Agt.

GREEN BAY, WIS.—Bids were opened Nov. 23 at the Indian Office, Washington, D. C., for the construction of an electric light plant at the Green Bay Indian School, Wis. The first bid is for a 50-KW. generator, and the second for a 30-KW. generator, unless otherwise specified: Kellwin Electrical Co., Milwaukee, Wis., $5,994; $5,922; Jan. 1, 1907. Kurz & Root, Appleton, Wis., $5,350; $5,250 for a 37½-KW. generator; 90 days. Central Construction Co., Oshkosh, Wis., $5,874; $5,745; Mar. 1. W. D. Lovell, Minneapolis, $7,220; $7,165; six months. Langstadt-Meyer Construction & Supply Co., Appleton, Wis., $5,685; $5,440; Feb. 28. Hermann Andrae Electrical Co., Milwaukee, Wis., $5,310; $5,110; Mar. 1.

LOHRVILLE, IOWA.—A gas plant is to be erected here at a cost of $5,000.

FORT DODGE, IOWA.—It is reported that the Fort Dodge Light & Power Co. will erect an 18-ft. power-dam across the Des Moines River, one mile above this city. Estimated cost, $3,000. H. E. Morton is Mgr.

CROOKSTON, MINN.—A municipal electric light plant will be erected here.

CHISHOLM, MINN.—The Chisholm Light & Power Co. is having surveys made for the construction of a dam on the Sturgeon River, 12 miles from Chisholm, where 1,200 H.P will be developed. The equipment of the power-house will consist of two 500-HP. turbines and two 300-KW., 1,100-volt, three-phase generators. The transmission will be at 22,000 volts. D. D. Crowley, 301 West Michigan St., Duluth, is Pres. and Mgr.

SARATOGA, WYO.—The plant of the Saratoga Light, Heat & Power Co., which was recently destroyed by fire, is to be rebuilt on a much larger scale. W. J. Barker is Mgr.

EXCELSIOR SPRINGS, MO.—The capacity of the Excelsior Spring Light, Power, Heat & Water Co.'s plant is to be doubled. A new Allis-Chalmers unit of 150 KW. capacity will be installed. When it is in operation a 24-hour service will be inaugurated.

HOUSTON, TEX.—The Houston Light & Power Co. will expend $125,000 in improvements to its plant. W. H. Chapman is Vice-Pres. and Mgr., at Houston.

ASPEN, COLO.—The Roaring Fork Electric Light & Power Co. is contemplating the erection of a new hydro-electric plant of 1,500 HP., a three-phase transmission line six miles long. C. E. Doolittle is Mgr. and Ch. Engr.

FLORENCE, COLO.—It is reported that a muncipal electric light plant is to be erected here.

TACOMA, WASH.—An electric light plant is to be erected here by the city, which will generate 5,000 HP.

GEORGETOWN, WASH.—The Seattle Electric Co. has secured permits at Georgetown for the construction of the new buildings in connection with new power plant which the company is to erect at a cost of approximately $1,000,000. The permits are for five buildings, to cost $92,000.

OXBOW, IDAHO.—The Western Power Co. of Boise, will erect a 20,000-HP. hydro-electric plant on Payette River near here. Arthur Glesler, 29 Broadway, New York, is to supervise the engineering work. Estimated cost, $1,500,000.

ST. JOHN, N. B.—The Grand Falls Power Co. will project a line 125 miles long to supply electric power to the industrial establishments in this city.

CANNING, N. S.—An electric light system is to be installed here.

STRATFORD, ONT.—The North Midland Electric Ry. Co. will enlarge its power-house at a cost of $100,000.

BIRTLE, MAN.—A by-law is being prepared to be voted on by the ratepayers to provide $20,000 for an electric power plant.

## BRIDGES.

*The names of parties awarded contracts are printed in capital letters.*

SPRINGFIELD, MASS.—It is reported that the Board of Public Works has submitted a report to the City Council recommending the construction of an overhead bridge and laying out of approaches over the Boston & Maine R. R. tracks in Brightwood, from Birnie Ave., to Fisk Ave. Estimated cost, $61,439.

LACONIA, N. H.—We are officially informed that plans have not yet been accepted for the proposed bridge over the Winnipiseogee. There will be three 70-ft. concrete spans, 34 ft. wide on masonry foundations. Charles A. Funch is City Engr.

PERTH AMBOY, N. J.—At a meeting of the County Board of Freeholders to-day the contract for building three steel spans in the Perth Amboy bridge was awarded to the SNARE & TRIEST CONSTRUCTION CO., 143 Liberty St., New York, N. Y., at $79,240. The piling of the present structure will have to be removed. There was only one other bidder, Dean, Schwiers & Sutton, 136 Liberty St., New York, whose bid was $84,916.

ALLENTOWN, PA.—It is reported that the Lehigh Valley Transit Co. is about to let contract for the construction of a bridge 1,804 ft. long at Eighth St., connecting Allentown and South Allentown. W. W. Hall is Ch. Engr., Allentown.

KENNERDELL, PA. — The AMERICAN BRIDGE CO., of Pittsburg, has been awarded contract to construct bridge across the Allegheny River, for $69,660.

CHESTER, PA.—The Chester & Delaware River R. R. Co. has awarded a contract to the AMERICAN BRIDGE CO., 42 Broadway, New York, N. Y., for the construction of a single track steel drawbridge over Chester Creek, at Chester, to cost about $18,000.

RICHMOND, VA.—The Chesapeake & Ohio Ry. Co. has let contract to A. M. WALKUP for bridging canal with steel girders, enabling the enlargement of company's freight yards. About $150,000 will be expended. F. I. Cabell is Engr. M. W.; J. M. Staten is Gen. Inspector of Bridges, Richmond.

FAIRMONT, W. VA.—A bridge is contemplated, which will be built at Point Marion. The plans have been approved.

CHARLESTON, W. VA.—We are officially advised that on Nov. 19 the citizens voted favorably on the question of issuing bonds amounting to $250,000 for bridge, paving and sewer improvements. W. A. Hogue is City Engr.

CHARLESTON, W. VA.—Bids are asked until 8 p. m., Dec. 29, by the City of Charleston for constructing a highway and traction bridge over Elk River, on the line of Virginia St. J. F. Hudson is Chn. Bridge Com. (Advertised, Engineering News.)

ATLANTA, GA.—The Gate City Terminal Co., which is to provide an entrance for the Atlanta, Birmingham & Atlantic R. R. into this city, has agreed to build a bridge over Hunter St. and under-passes at Western Ave. and Meldrim St., also to widen and pave other streets.

CULLMAN, ALA.—We are officially advised that Robert R. Pollock, County Surv., is designing a steel bridge for the County Commissioners, who intend to advertise for bids at once.

BATON ROUGE, LA.—The Southern Pacific Co. and the Illinois Central R. R. Co. are interested in constructing a new bridge across the Mississippi River. R. E. Gaut is Engr. Bridges, I. C. Ry., Chicago, Ill.

ANGOLA, LA.—It is reported that the Louisiana Railway & Navigation Co., in conjunction with other railways, will build a bridge near Angola. William Edenborn, Maritime Bldg., New York, N. Y., is Pres.; D. C. Fenstermaker is Ch. Engr.

MEADVILLE, MISS.—An election is to be held in Franklin County, Jan. 22, to vote on issue of $60,000 bridge bonds.

INDIANOLA, MISS. — The SOUTHERN BRIDGE CO., Birmingham, Ala., has been awarded contract to construct two steel draw bridges across the Sunflower River, at $23,797 and $24,454. J. F. Fountain, of Dockery, and J. N. Welsh are Engrs.-in-Charge.

HEIDELBERG, KY.—A bridge will be built over the Kentucky River, at Heidelberg, by the Louisville & Atlantic R. R. Co. R. N. Hudson is Gen. Mgr., Versailles, Ky.; J. R. Pates is Supt., Richmond, Ky.

PRESTONSBURG, KY.—Bids are asked until Dec. 6 by J. B. Whitt, County Judge, for erecting a bridge over the Big Sandy River at this town. Estimated cost, $50,000.

AKRON, OHIO.—A bridge 110 ft. high and 1,100 ft. long will be built over the Brandywine Creek, in the northern part of the county, by the Lake Erie & Pittsburg R. R. Co.

The Cincinnati, Akron & Cleveland Ry. Co. is preparing plans for building a new bridge on East Market St. at the Union depot. A. B. Jones, Akron, is Engr.

COSHOCTON, OHIO.—LABAJOHN & WILLIAMS, of Mansfield, have been awarded contract for the substructure of the Big Island Ford bridge, at $15,084, and the CAPITAL CONSTRUCTION CO., of Columbus, for the superstructure, at $8,897. George J. Bock, Jr., is Des. Engr.

INDIANAPOLIS, IND.—Bids will soon be asked for construction of a stone bridge over White River, in Riverside Park. John McGregor is Chn. of Comrs.

GREENSBURG, IND.—Bids are asked by the Commissioners of Decatur County until 10 a. m., Dec. 3, for construction of a bridge across Sand Creek to Southeast of Westport. Frank E. Ryan is County Audr.

DELPHI, IND.—The contract for constructing a bridge across the Tippecanoe River, at Main's Ford, has been awarded to the ATHEA BRIDGE CO., Athea, at $11,938.

BRAZIL, IND.—The contract for building the big steel bridge over the Eel River, south of Center Point, near Brazil, has been secured by the VINCENNES BRIDGE CO. This company was the only one submitting a bid less than the estimates called for, the bid being $11,795.

TIPTON, IND.—Bids are asked until 2 p. m., Dec. 3, by the Commissioners of Tipton County for constructing concrete bridges near Hobbs and Windfall. T. W. Longfellow is Audr.

IOWA CITY, IOWA.—The Board of Supervisors of Johnson County has decided to construct a steel or iron bridge at Iowa City, over the Iowa River, to cost about $10,000. Prof. C. S. Magowan, State University of Iowa, is Des. Engr.

MUSCATINE, IOWA.—The Iowa Central Ry. Co. has issued bonds amounting to $1,000,000 for constructing a bridge at Keithsburg over the Mississippi River.

TOPEKA, KAN.—Bids are asked until Dec. 3 at the office of J. H. Squires, City Clerk, for repairing the Sixth Ave. viaduct. Probable cost, $11,863.

TOPEKA, KAN.—It was decided by the City Council on Nov. 12, that the City Clerk should advertise for bids for the rebuilding of the Sixth St. Viaduct. The City Engineer submitted plans, estimates and specifications which were approved by the Council. The estimated cost is $11,863. James F. McCabe is City Engr.

WATERLOO, NEB.—The sum of $3,000 for a new bridge across the Elkhorn River, near Waterloo, has been allowed by the County Commissioners. It will apply on the construction of a bridge to take the place of the one dropped in the river while being removed.

KANSAS CITY, MO.—Bids are asked until Dec. 10 by the County Court for constructing several small I-beam steel bridges; also a reinforced concrete top bridge on Troost Ave. over first branch South of 63d St. Oscar Koehler is Road and Bridge Comr.

A bridge to cost more than $1,000,000 will be constructed across the Missouri River by the Chicago, Burlington & Quincy Ry. Co. W. L. Breckenridge is Ch. Engr.; C. H. Cartlidge is Bridge Engr., Chicago, Ill.

HEMPSTEAD, TEX.—The contract for rebuilding the bridge across the Brazos River has been let to E. P. ALSBURY & SONS, of Houston, at $9,500. Work will begin within 60 days.

CASSVILLE, ARK.—It is reported that the St. Louis & San Francisco R. R. Co. is arranging to build a concrete arch at the entrance to the Boston Mountain tunnel, replacing steel trestle. The company is reported to have purchased ten acres of ground for this purpose. J. F. Hinckley, St. Louis, Mo., is Ch. Engr.

DEMING, WASH.—The contract for constructing a bridge over Nooksack River is reported to have been awarded to the PUGET SOUND BRIDGE & DREDGING CO., Seattle, at about $6,000.

NORTH YAKIMA, WASH.—Bids are asked until Dec. 3 for constructing a combination bridge over the Natches River. The bridge is to be constructed on stone piers. W. F. Meloy, North Yakima, is Des. Engr.; W. B. Newcomb is Supt. of Construction.

PORTLAND, ORE.—Plans have been submitted for a viaduct above East Morrison St., between Grand Ave. and the Willamette River. The plans contemplate building the elevated roadway of steel and reinforced concrete. The upper roadway would be occupied by the street cars and lighter vehicle traffic, while the lower street would be taken up with trucks and wagons carrying heavy freight. Heavy glass in the upper deck would illuminate the lower street. The cost has not yet been estimated. Otto Kleemann, 30 Grand Ave., Portland, is Des. Engr.

LOMPOC, CAL.—The Board of Supervisors has let the contract for repairing the Surf and Dyer bridges to HYDE, HARTJES & CO. of San Francisco, at $6,120 for the two contracts.

FORT WILLIAM, ONT.—The Fort William Terminal Ry. Co. is considering the advisability of erecting a bridge across the Kaministiqua River to Island No. 2.

MERRITON, ONT.—A bridge will be erected here by the Niagara, St. Catharines & Toronto Ry. Co. E. F. Seixas is Gen. Mgr.

TORONTO, ONT.—C. H. Rust, City Engr., writes us that "by-law to provide money for the construction of a bridge over the railway tracks at the foot of Yonge St. will be voted upon by the rate-payers on Jan. 1.

"With reference to the extension of Harbord St. and the construction of a bridge over the ravine: The recommendation for this work has not yet passed the City Council."

TORONTO, ONT.—See under Streets and Roads.

ST. BONIFACE, MAN.—The Council has offered to pay $50,000 toward a bridge to be constructed over the Red River, from Lombard St. or McDermot Ave., Winnipeg, to Aubert St., St. Boniface; or $75,000 for a bridge from Water St. subway, Winnipeg, to Dumoulin St., St. Boniface.

STRATHCONA, ALTA.—The Canadian Pacific Ry. Co., P. Gutelius, Asst. Ch. Engr., Montreal, Que., is reported to have decided to construct a bridge over Saskatchewan River, from Strathcona to Edmonton, probable cost, $1,000,000. F. W. Alexander is Res. Engr., Calgary, Alta.

GRAND FORKS, B. C.—Bids are asked until 5 p. m., Dec. 3, by J. A. McCallum, City Clerk, for constructing bridge over the Kettle River, at Fourth St.

## BUILDINGS.

*The names of parties awarded contracts are printed in capital letters.*

SPRINGFIELD, MASS.—George A. Whitney and others will erect a 10-story office building at Main and Fort Sts.

MAYVILLE, N. Y.—It has been decided to erect a $130,000 court-house here. It is to be of stone. W. J. Beardsley is Arch.

MIDDLETOWN, N. Y.—Bids are asked by the State Commission in Lunacy, Albany, until 3 p. m., Dec. 12, for furnishing two 150-HP. boilers at the State Homeopathic Hospital at Middletown. T. E. McGarr, Capitol, Albany, is Secy. of Comn.

NEW YORK, N. Y.—Plans have been filed for a 6-story fireproof training school for women nurses for Bellevue and the Allied Hospitals on 26th St., near First Ave. Estimated cost, $575,000.

Bids are asked until 3 p. m., Dec. 5, by John W. Brannan, Pres. Board of Trustees, Bellevue and Allied Hospitals, for additions and alterations to the buildings and present fire protection devices of Bellevue Hospital.

The following bids were received Nov. 26 for the construction of additions and alterations to Public School 41, Boro. of Manhat-

tan: H. M. Weed & Co., 124 West 45th St., $113,700; J. & L. Moreland Co., 1910 Park Ave., $114,800; Thos. McKeon, 521 West 110th St., $104,439; P. Brennan & Son, 23d St. and Broadway, $107,000; C. H. Peckworth, 415 Hudson St., $107,785; Thos. Cockerill & Son, Columbus Ave. and 66th St., $98,700; Geo. Hildebrand, 38 Park Row, $106,833; P. Gallagher, 1180 Broadway, $112,000; A. Nugent & Son, 103 East 125th St., $104,790.

NEW YORK, N. Y.—Plans have been prepared by R. T. Rasmussen, Arch., 30 Graham Ave., Brooklyn, for the erection of a three-flat building on South Third St., Boro. Brooklyn, for P. Pelcyger, 110 Hart St. Estimated cost, $120,000.

George F. Pelham, Arch., 503 Fifth Ave., has prepared plans for the erection of two flat buildings, 75 × 87 ft. and 50 × 88 ft., at Amsterdam Ave. and 118th St., at a cost of $150,000, for Felt & Malakop, 271 West 141st St.

At the annual meeting of the Board of Directors of the Sydenham Hospital, in East 116th St., on Nov. 22, Isaac Guggenheim, of 763 Fifth Ave., announced that he would erect for the institution a new building, to cost $500,000, if the Board would guarantee to him that they would obtain for the hospital an annual income of $50,000 or $60,000 a year.

Plans have been filed with the Building Superintendent for a 3-story public bath and gymnasium, to be erected at 342-48 East 54th St. Estimated cost, $200,000. Werner & Windolph, 27 West 33d St., are Archs.

NEW YORK, N. Y.—Bids were received as follows on Nov. 26 by Board of Education for electric equipment in these schools: (a) No. 83, Brooklyn; (b) No. 91, Brooklyn; (c) No. 114, Brooklyn; (d) No. 4, Richmond: Griffin & Co., 150 Nassau St., (a) $8,488; (b) $3,588; (c) $7,988; (d) $3,538. T. T. Jackson, (a) $8,300; (b) $3,082; (c) $7,700; (d) $3,600. Pete & Powers, (a) $7,942. S. Hewitt Eng. Co., (a) $8,550. Commercial Const. Co., 114 East 28th St., (b) $3,600; (c) $8,400. T. Pearce Co., (a) $9,106; (c) $8,089. Le Barron B. Johnson, 120 Liberty St., (d) $4,241. T. E. Gore, (a) $8,750; (b) $3,875; (c) $8,275; (d) $3,450.

NEW YORK, N. Y.—Bids were opened Nov. 26 for heating and ventilating apparatus for Public School 66, Boro. of Queens. The following were the two lowest bids received: Blake & Williams, 211 West 20th St., $15,988; R. J. Sovereign, 63 Fifth Ave., $16,220.

CARLISLE, PA.—Bids are asked by the Commissioner of Indian Affairs, Washington, D. C., until Dec. 10, for the erection of a hospital at Carlisle. Major William A. Mercer is Supt.

PHILADELPHIA, PA.—Bids are soon to be asked for the erection of an administration, store, public and private ward buildings for the scarlet fever section of the Municipal Hospital in 33d Ward. Estimated cost, $750,000.

Plans are being prepared for the erection of a 16-story office building, to be erected on the site of the old Hazeltine Bldg. at 1418 Chestnut St. Estimated cost, $2,500,000.

PITTSBURG, PA.—The Union Trust Co. is considering the erection of a 30-story building. D. H. Burnham & Co, 1417 Railway Exchange Bldg., Chicago, are Archs. Estimated cost, $1,300,000.

It is reported that an addition to cost $150,000 is to be made to the Braddock General Hospital.

HOMEWOOD, PA.—It is reported that Andrew Carnegie has given $150,000 to this city for the erection of a library. E. H. Garwood is Chn. of Library Com.

WASHINGTON, D. C.—Capt. Stephen Sewell, U. S. A., Officer in charge of construction work at the U. S. Soldiers' Home, Washington, D. C., has awarded to PAVARINI & WYNE, Munsey Bldg., Washington, D. C., contract for the construction of a guard-house at the Soldiers' Home. The contractor's total bid was $55,410, but it is understood that it is accepted subject to certain changes in accordance with alternate proposals submitted. None of these changes, however, will amount to more than $1,000. Bids were opened Nov. 15.

Capt. Stephen Sewell, U. S. A., Officer in charge of construction work at the U. S. Soldiers' Home, Washington, D. C., will, it is understood, award to J. C. ROBINSON & SON, New York, contract for the construction of a mess hall at the Soldiers' Home, subject to final approval of the materials which the contractor proposes to use. The bid for furnishing all necessary materials, with certain specified exceptions, all plant and labor and completing the building without mechanical equipment, was $728,473. Bids were opened Nov. 12.

L. Morris, Arch., 808 17th st, N. W., is preparing plans for a 4-story brick, stone and steel fireproof addition to the McKinley Manual Training School at Seventh and Rhode Island Aves.

WASHINGTON, D. C.—Bids were opened Nov. 21 at the office of Elliott Wood, Superintendent of the U. S. Capitol Buildings and Grounds, Washington, for furnishing the interior cut stone for the rotunda section and the main stair hall in the new Senate Office Building, Washington. Bids were as follows: B. A. & G. N. Williams, New York, $276,483; Vermont Marble Co., Proctor, Vt., $244,800; $12,000 additional for monolithic shafts; Rullman & Wilson (Beaver Dam Marble Co.), Baltimore, $189,000; $5,400 additional for monolithic shafts.

Bids are asked by James Knox Taylor, Supervis. Arch., Treasury Dept., until 3 p. m., Dec. 12, for plumbing and heating apparatus for the extension to the U. S. Custom House in Washington, D. C.

JAMESTOWN, VA.—The Supervising Architect of the Treasury, Washington, has awarded to GEO. MOORE & SONS, Nashville, Tenn., the contract for the construction of four Government buildings and one life-saving station in connection with the Tercentennial Exposition at Jamestown, Va., at $227,050. This figure covers all the work except the machinery for the Fisheries Building.

RICHMOND, VA.—The contract for building floors over the basin from Eighth St. to Twelfth St., 160 ft. wide, has been awarded by the Chesapeake & Ohio Ry. Co. to A. N. WALKUP. The improvement will give the company an additional three acres of floor space, to be used for freight purposes. Estimated cost, $200,000.

RALEIGH, N. C.—Bids are asked until Dec. 3, by the Edwards & Broughton Printing Co. for erecting a 3-story brick building, 60 × 110 ft., on South Salisbury St. W. P. Rose is Arch.

SAVANNAH, GA.—Owens & Sisco, Archs., Continental Bldg., Baltimore, Md., are preparing plans for a 2-story brick and stone High school in this city, for the Chatham Academy. Estimated cost, $100,000.

COLUMBUS, GA.—Bids are asked by the Board of Trustees of the Y. M. C. A. until Dec. 4 for erecting a Y. M. C. A. building at Ninth St. and Sixth Ave. T. U. Smith & Co., Garrard Bldg., are Archs. L. H. Chappell is Chn.

SAVANNAH, GA.—Owens & Sisco, Archs., are preparing plans for a high school to be erected here, at a cost of $100,000.

FRANKFORT, KY.—Bids are asked by Henry B. Ware, Secy. of Bd. of Capital Comrs., until Dec. 4, for heating and ventilating apparatus, electric wiring, conduit, annunciator and bell service, etc., and electric pasenger elevators for the Kentucky State Capitol building.

CLEVELAND, OHIO.—A syndicate of Eastern capitalists will erect an 8-story building at Prospect Ave. and East 18th St. Plans are being prepared by Harry A. Cone, Arch., 1229 Schofield Bldg. Estimated cost, $300,000.

W. P. Ginter, Arch., of Akron, Ohio, has prepared plans for a church to be erected on Buckeye Road and East 19th St. It will be a sandstone structure, and cost $250,000.

Hubell & Benes, Archs., Citizens' Bldg., will prepare plans for the new West Side Market House to be erected on Lorain and West 25th St. Estimated cost, $350,000.

TOLEDO, OHIO.—George S. Mills, Arch., has plans for a business building on Summit St., between Monroe and Perry St., for the Bostwick-Brown Co. Estimated cost,$110,000.

GREENSBURG, IND.—Bids are asked by Wm. W. Robertson, Trustee of Adams Township, until 1 p. m., Dec. 5, for installation of new steam heating plant in the new school building of Adams Township.

INDIANAPOLIS, IND.—John B. Cockrum is Chairman of the Building Committee to erect a 14-story office and grand lodge building in this city. The building will be of skeleton fireproof construction, with exterior walls of brick faced with white glazed terra cotta richly embellished. The interior will be of mosaics and marble; the woodwork mahogany. The estimated cost is $400,000. Rubush & Hunter, American Life Bldg., Archs.

RICHMOND, IND.—The Y. M. C. A. is preparing to let a contract for the erection of a $100,000 association building.

BLOOMINGTON, IND.—The contract for the erection of the new Monroe County Court-House has been let to CALDWELL & DRAKE, of Columbus, Ind., at $118,785. This contract was first let to Aug. Ohme, of Terre Haute, but failing to furnish bond, it was awarded to Caldwell & Drake.

INDIANAPOLIS, IND.—The Second Disciples Church has ordered plans for the erection of a new church, industrial school and gymnasium building. Rev. H. L. Harrod, Pastor.

The Board of Public Works having secured a favorable court decision, will now ask for bids for the construction of the city hall and auditorium. Plans and specifications are now ready for bidders.

Plans for the erection of a 14-story office building, to cost $400,000, will soon be submitted to the Grand Lodge of Odd Fellows for approval. The building will be of skeleton fireproof construction, brick and stone. A building committee will be appointed to act with the Grand Lodge Hall Trustees.

LAFAYETTE, IND.—The Trustees of Purdue University contemplate the erection of a large addition to the mechanical engineering building.

Plans are being made to secure an appropriation from the Legislature for the construction of a hospital, an old man's home, and an artificial ice plant at the State Soldiers' Home near this city. It will cost over $200,000.

PRINCETON, IND.—The Commissioners of Gibson County will soon ask for bids for the erection and equipment of a new and modern jail. The Council has appropriated the money and plans have been ordered.

PERU, IND.—S. A. Bouslog has ordered plans and will receive bids for the erection of a large business block in Oakdale, a suburb of Peru. The building will be of reinforced concrete.

ST. PAUL, IND.—The School Trustees are asking for bids for the installation of a new steam-heating plant in the new school house. Will Watson, of Greensburg, is Arch.

DETROIT, MICH.—The St. Paul's Protestant Episcopal Church will erect a large church in connection with the present chapel at Woodward and Hancock Aves., at a cost of $200,000. Rev. S. S. Marquis, 29 Lathrop Ave., is Rector.

JACKSON, MICH.—Bids are asked until Nov. 30 by the Board of Education for the erection of a high school, to cost $110,000. Robt. A. Smith is Secy.

CHICAGO, ILL.—The Ancient Order of Hibernians of Cook County contemplate the erection of a building to contain stores, offices, lodge halls and a gymnasium, at Ogden Ave. and Leavitt St. It will probably be four stories high, 116 × 150 ft. ground dimensions, and will cost $100,000.

It is reported that plans of Morgan & Dillon, Archs., have been adopted for the erection of a $200,000 Masonic Temple.

It is reported that a hospital, to be known as the McCormick Memorial Hospital, will be erected at South Park Ave. and 54th St., at an estimated cost of $500,000. Plans have been prepared by S. S. Beman, Arch., 208 Michigan Ave.

George Beaumont, Arch, 115 Dearborn St., and Richard E. Schmidt, Arch., 172 Washington St., have submitted plans to Chief of Police Collins, City Hall, for a police station to be built in the downtown district on a site which is yet to be selected. The city has a site at 539 to 551 State St., near Harmon Court, but the Chief of Police objects to its location owing to the noise of the nearby elevated trains. The plans call for a 10-story building, 120 × 139 ft., of fireproof steel construction, with probably stone exterior, having steam heat, electric light, and is estimated to cost $650,000.

Alexander W. Hannah, 2051 Sheridan Road, it is reported, has leased the property on the southeast corner of Halsted and Madison Sts., and proposes to erect thereon a fireproof building, to cost $150,000.

DANVILLE, ILL.—The contract for the erection of the Baum Bldg. has been awarded to O. P. YEAGER, of this city. It is to be a 7-story building, and is to be erected on North Vermilion St. Estimated cost, $167,775.

WAUSAU, WIS.—Bids are asked by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Jan. 2, 1907, for construction of, including heating apparatus, the extension to the U. S. post-office here. (Advertised, Engineering News.)

LEAVENWORTH, KAN.—Plans are being prepared for the erection of a hospital at Broadway and Michigan Aves., by the Sisters of St. John's Hospital. Estimated cost, $100,000.

BILLINGS, MONT.—George Benninghoff will erect a 6-story office building here at a cost of $150,000.

GALENA, MO.—Bids are asked by the Building Committee of Galena Lodge No. 677, B. P. O. E., until Dec. 10 for the erection of Elks' club-house.

ST. JOSEPH, MO.—It is reported that the Chicago, Rock Island & Pacific R. R. Co. will erect a $100,000 freight-house here. F. P. Jeffries is Gen. Pur. Agt., at Chicago, Ill.

ST. LOUIS, MO.—Mauran, Russell & Garden, Archs., 1620 Chemical Bldg., have prepared plans for a 16-story addition to the National Bank of Commerce and the erection of five additional stories on the present structure. Estimated cost, $2,500,000.

DENVER, COLO.—The Armstrong-Turner Millinery Co. will erect on Champs St., between 15th and 16th Sts. Estimated cost, $100,000. It is to be a 5-story fireproof building.

MONTESANO, WASH.—Plans will be received until Dec. 3 for the erection of a fireproof court-house by the Commissioners of Chehalis County. Estimated cost, $100,000.

SEATTLE, WASH.—W. M. Neacham will erect a 3-story brick apartment house on East Union St., between 13th and 14th Aves., at a cost of $150,000.

The Wilson & White Co., owner of the Rainier-Grand hotel, has secured possession of the half block immediately back of the Rainier-Grand, on which a 12-story hotel building covering the entire ground is to be erected. Estimated cost, $750,000.

BERKELEY, CAL.—A $100,000 law library will be erected for the University of California.

SAN FRANCISCO, CAL.—The Parrott Estate has decided to rebuild at once on the site of the Emporium on Market St. Estimated cost, $1,000,000.

BERLIN, ONT.—A new hotel will be erected here to cost $200,000. F. S. Baker, Arch., Toronto, has prepared the plans.

## WATER SUPPLY—IRRIGATION.

*The names of parties awarded contracts are printed in capital letters.*

CAMBRIDGE, MASS.—Lewis M. Hastings, City Engr., has awarded the contract for construction of tunnels for water pipes and wires under Broad Canal at First, Third and Sixth Sts. to the CHARLES R. GOW CO., 79 Milk St., Boston, at $22,500. The tunnels are to be of brick, six ft. in diameter, the one at First St. 156 ft. in length, and the other two each 120 ft. long. They will be built about 12 ft. below the bed of the canal, which will be dredged after the conduits are built.

NEW YORK, N. Y.—Bids are asked until 10 a. m., Dec. 4, by the Board of Health for furnishing and delivering wrought iron pipe and fittings, brass stop cocks, and iron brass-lined gate valves, to the tuberculosis sanatorium at Otisville, Orange County, N. Y. Thomas Darlington, M. D., is Pres.

Bids are asked until Dec. 5 by John H. O'Brien, Comr. of Water Supply, Gas and Electricity, for furnishing and delivering wrought iron or wrought steel pipe and pipe fittings, in Brooklyn.

TROY, N. Y.—Plans, specifications, and bidding sheet for constructing spillway canal, etc., as advertised, are on file at office of Engineering News, New York. Bids are asked until Dec. 11.

HOOSICK FALLS, N. Y.—The City has voted to issue $100,000 of bonds for construction of a new water-works system. Frank V. Millman is City Clerk.

BUFFALO, N. Y.—Bids are asked until Dec. 4 by the Department of Public Works for furnishing material and erecting two new steam mains and disconnecting and removing the old main at pumping station. Francis G. Ward is Comr.

YONKERS, N. Y.—A. W. Kingsbury, Clk. Bd. Water Comrs., advises us under date of Nov. 23 that the bid of the Prescott Steam Pump Co. for a horizontal, cross-compound crank and fly wheel pump at $21,790 was omitted from the list sent us, and which was published on Nov. 15.

KINGSLAND (Rutherford post-office), N. J.—We are officially advised that William S. Logan, Arlington, N. J., has been directed to prepare plans and estimates for a municipal water supply from wells. Committee is considering bonds for extension of present system in Kingsland.

HALEDON (Paterson post-office), N. J.—ROCCO SECCO, of New York, has secured the contract for the work on the proposed water-works system. The RENSELLAER VALVE & HYDRANT CO., of Troy, N. Y., has the contract for supplying valves and hydrants. B. Rider is Engr.

SPRING CITY, PA.—Bids are asked until noon, Dec. 12, at the Governor's office, Harrisburg, for constructing reservoir, wells and sewage disposal plant, etc., as substitution for Feeble Minded Institution near Spring City, Chester County, (Advertised, Engineering News.)

PUNXSUTAWNEY, PA.—The Borough Council has granted a franchise to the Citizens' Water Co., recently formed with a capital stock of $100,000. It is intended to have a new plant ready by May 1, 1907. The franchise of the old company expires at the Kurtz is Pres.

WASHINGTON, D. C.—Bids are asked until Nov. 30, by the District Commissioners for installing water pumps, engines, etc., at the Business High School, Washington.

MARTINSBURG, W. VA.—The City has decided to lay 2,000 ft. of 6-in. and 1,000 ft. of 10-in. water main. P. R. Hunter is Mayor; P. W. Leiter is City Clk.

COLUMBUS, GA.—It is reported that J. L. Ludlow, Charlotte, N. C., has been engaged to prepare plans for a sedimentation and filtration reservoir for water supply for this city. M. M. Moore is City Clk.

MARIETTA, GA.—It is reported that citizens have voted $80,000 of bonds for a system of water-works for Marietta.

GADSDEN, ALA.—The City has granted to R. A. Mitchell the right to lay pipes in the streets and alleys for furnishing the city with water. Franchise was previously granted in 1904, but has been held up owing to legal technicalities.

BARBOURSVILLE, KY.—The Barboursville Water, Power & Light Co. has been organized by S. H. Hale and associates. It will take over the Barboursville Electric Light Co. and install a modern water-works system.

DAYTON, OHIO.—On Nov. 13 the Board of Public Service awarded contract to the DAYTON HYDRAULIC CO., of Dayton, for installing pumps and motors for water works sub-station on Linden Ave. Contract price, $7,390. Harry J. McDargh is Engr. Water Dept.

ELKHART, IND.—Bids are asked until Jan. 10, 10 a. m., by the Board of Public Works for furnishing for a period of 25 years (from April 28, 1909) an ample supply of wholesome water, free from all impurities, for all domestic and public uses and purposes, including fire protection. General specifications and information for bidders are on file at office of Engineering News, New York.

GALESBURG, MICH.—A water-works system will be constructed, including laying pipes in every street and installing hydrants.

CHICAGO, ILL.—Bids are asked until 11 a. m., Dec. 22, by the Department of Public Works, for installing in pumping station to be located at 104th Pl. and Stewart Ave., four triple-expansion condensing self-contained crank and fly wheel pumping engines, with a capacity of 25,000,000 gallons each. Also, at same time, for similar pump for Lake View pumping station located at Montrose and Clarendon Aves. William L. O'Connell is Comr. of Pub. Wks. (Advertised Engineering News.)

FAIRBURY, ILL.—The city contemplates spending $6,000 in improving the water-works system.

KEWANEE, ILL.—A contract has been awarded by the Kewanee City Council to a Chicago firm to sink two deep wells for the new city water station, the price to be $16,000 if 600,000 gallons are given every 24 hours, otherwise no pay. The old city station is to be abandoned on account of failing supply.

BARRINGTON, ILL.—The Board of Local Improvements has awarded the contract to WILLIAM B. EWING, of LaGrange, Ill., for extension of water mains in the streets here.

WEST SIDE, IOWA.—Bids are asked until Dec. 3, by the Village Clk., for the construction of water-works. We are officially informed that the work consists of a 40,000-gal. steel tank on a 75-ft. steel tower of an open well, pump pit and duplex steam pump, and about 4,300 ft. c.-i. distribution pipe. A. Marston and F. C. French are Engrs., Iowa State College, Ames.

WEST BRANCH, IOWA.—C. H. Meredith, of Cedar Rapids, Iowa, is making estimates for the proposed water-works. Thomas Farrell is City Clk.

BIWABIK, MINN.—The City will issue bonds amounting to about $25,000 to secure funds with which to construct water-works and electric lighting plants.

MINNEAPOLIS, KAN.—The question of purchasing the plant of the Minneapolis Water Co., or constructing municipal water-works, is reported under consideration here.

MITCHELL, NEB.—Bids are asked until Jan. 9, 1907, at the office of the Reclamation Service, Mitchell, Neb., for construction of the diversion dam and headworks, in connection with the North Platte Irrigation project, Wyo.-Neb. The work involves the excavation of about 90,000 cu. yds. of earth and rock, furnishing and placing in structures about 10,000 ft. B. M. of lumber and the construction of about 8,000 cu. yds. of concrete masonry. This work was previously advertised and but one bid received and that for only part of the work. The Secretary of the Interior rejected this bid as being excessive, and authorized the prosecution by force account of certain work near the headgates which was necessary in order that water may be delivered in the spring of 1907.

BISMARCK, N. DAK.—Bids are asked by the Commissioner of Indian Affairs, Washington, D. C., until Dec. 6, for constructing a water and sewer system at the Bismarck Indian School.

FARGO, N. DAK.—JAMES KENNEDY, of Fargo, has secured contract for construction of water mains in different parts of the city. Samuel F. Crabbe is City Engr.

CODY, WYO.—The Secretary of the Interior has executed a contract, and approved the bond of NELS L. OLSEN, of Butte, Mont., for construction of Division 1, Garland Canal, Shoshone irrigation project, Wyo. This work involves the excavation of about 900,000 yds. of earth, about 96,000 cu. yds. of rock and shale and construction of incidental structures about 15 miles northeast of Cody, Wyo. The bid of the contractor was $270,74

HUNTLEY, MONT.—Piper Bros., of Pueblo, Colo., contractors in charge of canal construction on the Huntley irrigation project, Mont., have formally transferred to the Reclamation Service their contract, plant, materials, supplies and commissary. The Government will complete the contract by force account and has already organized a force, and work is under way.

ALBANY, MO.—Bids are asked until Dec. 4 for construction of a water-works system. Burns & McDonnell are Engrs., 709 Dwight Bldg., Kansas City, Mo.

PLATTSBURG, MO.—Bids are asked until Dec. 15 by Dr. Chas. E. Boxx, Mayor, for steel stand-pipe, erected on brick tower, engine, pumping machinery, c.-i. water pipe, hydrants, valve specials, and all materials f. o. b. cars Plattsburg, or delivered on the ground, and for any and all parts of the work for a system of water-works. George Cadogan Morgan is Engr., 808 Royal Insurance Bldg., Chicago, Ill.

EUREKA SPRINGS, ARK.—Bids are asked until Dec. 8 for constructing water-works and sewer systems, to cost about $17,000. Nicholas Kizer is Comr. Water and Sewers.

FORT WORTH, TEX.—It is reported that the City is considering the expenditure of between $40,000 and $50,000 for improvements to water-works. John B. Hawley is City Engr.

GAINESVILLE, TEX.—The City is considering the purchase of local water-works plant, and has engaged an engineer to estimate the value of same. G. M. Rousseau is City Secy.

ANGLETON, TEX.—Regarding the notice in Engineering News, Nov. 15, referring to the irrigation project at Angleton, David M. Duller, C. E., Houston, Tex, writes us: "The name of this company is Angleton Canal Company; the writer has charge of the engineering in all capacities. It is proposed to develop 25,000 acres of land for rice. There is also tributary to the canal several thousand acres of land for corn, sugar cane and cotton."

FORT WORTH, TEX.—Bids are asked until 2 p. m., Dec. 15, by the City of Fort Worth for a cross-compound 2-stage air compressor and auxiliaries, of 3,000 cu. ft. capacity, and two 3,000,000-gallon high duty pumps, for the Water-Works Department. C. G. Harrold is Chn. John B. Hawley is City Engr. (Advertised, Engineering News.)

DENVER, COLO.—The Denver Water Co. is reported to have decided to expend within the next two years $1,250,000 in the enlargement of the water supply system. Walter Cheesman is Pres.

ARTESIA, N. M.—The Town Board of Trustees has sold $50,000 water-works bonds, and contract for construction of the water system has been let to the AMERICAN LIGHT & WATER CO., New England Bldg., Kansas City, Mo. Work is to begin within 30 days.

WALLA WALLA, WASH.—The Northern Pacific Irrigation Co. will expend $150,000 in improvements to its irrigation system in the Kennewick country. Cement flumes will be put in to replace the dirt water course.

TACOMA, WASH.—Bids are asked until 11 a. m., Dec. 3, for furnishing air-lift pumping plant for Tacoma water-works. Owen Woods is Comr. Pub. Wks.

GEORGE MILTON SAVAGE, California Bldg., is reported to have secured the contract for water mains in District 612, at $24,879.

COLVILLE, WASH.—It is reported that the Edendal Land Co. will expend $25,000 within the next six months in irrigation of their 12,000-acre tract on the Columbia River in Stevens County.

WENATCHEE, WASH.—Plans have been completed for construction of proposed water-works and pipe line. It is proposed to take water from Snow Creek, a tributary to the Icicle, five miles from Leavenworth, and from Wenatchee a distance estimated at from 26 to 30 miles. The short route, which will require tunneling through a small mountain near this city, is 26 miles in length, and this route is most favored by members of the water committee. The source proposed to be used is capable of furnishing 9,000,000 gallons of water a day, claimed to be ample for 50,000 persons. The system will cost, when completed, about $200,000 and will require to construct not less than 18 months.

PORTLAND, ORE.—We are officially advised that on Nov. 19 Theodore Weisberger, of North Yakima, Wash., submitted the only bids on the following divisions for the Tieton Main Canal, Tieton project, Wash., which were received at the Supervising Engineer's office at Portland: Division 5A, excavation for open canal, $91,774; 6A, concrete shapes for canal and tunnel lining, flumes and flume supports, $136,000; 7A, for concrete work, $6,671. D. C. Henry is Sup. Engr.

BOISE, IDAHO.—It is reported that the Water Works Commission on Nov. 8 submitted to Council a report on the proposed municipal water-works. Three plans were submitted as follows: Gravity system consisting of a 36-in. wooden pipe line from a point on Boise River just below mouth of South Fork, a distance of 25½ miles. This system would have a fall of 3 ft. to the mile and would empty into a reservoir in the foothills at an extension of Jefferson St. to the east, and would give a 200-ft. head at Ninth and Main Sts. Cost, $770,106. Another system is taking water from above Government dam, securing power there and installing a pumping plant which would give a head of 150 ft. at Ninth and Main Sts. Cost $525,000. A third plan provides for a pumping system located within the city, from wells, electric pumps to be used. Cost $181,700. Charles Irwin, A. J. Wiley and Walter S. Graves are Engrs.

LUCILE, IDAHO.—The Union Placer Co. is reported to be arranging for construction of a gravity water system to cost $75,000.

AMERICAN FORK, UTAH.—On Nov. 10, the citizens voted to construct water-works costing $23,000. R. R. Lyman, 1084 Third St., Salt Lake City, is Engr.

HULL, QUE.—The City Engineer has reported to the City Council that the cost of the improvements in connection with the water-works will be $14,000. This amount includes $9,000 for laying the intake up the river a distance of 450 feet, and $3,000 for piers. An auxiliary plant is also under consideration. M. Thibault is Mayor.

FORT WILLIAM, ONT.—Bids are asked until 6 p. m., Dec. 15, by A. McNaughton, Secy. Bd. of Water and Light Comrs., for constructing Section 3 of the Loch Lomond water supply. The work consists of 500 ft. of 36-in. steel intake pipe, 4,500 ft. of concrete-lined tunnel, 4,000 cu. yds. excavation, etc. H. S. Hancock is Town Engr. (Advertised, Engineering News.)

HAMILTON, ONT.—The Fire and Water Committee has recommended the submission of a by-law to raise $50,000 for new electric pumps at the Beach, and 30,000 for a new fire station in the East End. In addition to this, $40,000 is wanted for a new central station. The total cost of the improvements will be $150,000.

## SEWERAGE.

*The names of parties awarded contracts are printed in capital letters.*

BOSTON, MASS.—Bids are asked until 2:30 p. m., Dec. 14, for constructing in rock and earth tunnel, part of Section 85 of the extension of the high level sewer, South Metropolitan System, on Commonwealth Ave. and Warren St., Brighton. William M. Brown, Engr. Sewerage Works, Metropolitan Water and Sewerage Board. (Advertised, Engineering News.)

ROCHESTER, N. Y.—It is reported that the Council on Nov. 13 passed ordinances providing for the construction of sewers in Mount Hope and Lake Aves., Gertrude St. and Westminster Road, at a total cost of about $24,100.

BINGHAMTON, N. Y.—S. M. Baird, City Engr., has been directed by the Common Council to prepare plans and estimates for the enlargement of the Mill St. sewer. It is proposed to change from a 10-in. to a 15-in. sewer.

BOLIVAR, N. Y.—Knight & Hopkins, of Rome, N. Y., have completed plans for a proposed sewer system in Bolivar and have sent them to the State Board of Health for approval. It is estimated that it will cost $65,000 per mile.

SUMMIT, N. J.—Bids are asked until Dec. 4 by Chester C. Henry, City Clk., for constructing 1,000 lin. ft. vitrified pipe sewer. E. D. Rich is City Engr

MERCHANTVILLE, N. J.—On Nov. 15 we stated that the two bids received Nov. 10 for sewer construction had been rejected. We have since been officially advised the contract probably will be let to one of the bidders at about $70,000. A. W. MacCallum is Chn. Sewer Com., 26 South Third St., Philadelphia, Pa.

SPRING CITY, PA.—See under Water Supply and Irrigation.

WASHINGTON, PA.—We are officially advised that the contract for constructiig sewage disposal plant has been awarded to WILLIAMS, PROCTOR & POTTS, Whitehall Bldg., New York, N. Y., at $78,850. R. Winthrop Pratt, Columbus, Ohio, is Consult. Engr. Bids were received Nov. 19.

CARLISLE, PA.—The Town Council has been recommended, by the Sewerage Committee, to construct the necessary septic tank and main sewer, and the other sewers to be constructed upon an assessment basis, providing the majority of the property owners sign a petition to that effect.

MOUNT CARMEL, PA.—Contract for construction of intercepting and outfall sewers has been awarded to DeNALLO & KLINGBERG. The firm's bid was submitted in parts, $28,515 and $10,638.

CHARLESTON, W. VA.—See under Bridges.

CAMDEN, S. C.—Frederick Minshall, Consult. Engr., Abbeville, S. C., is preparing plans and specifications for proposed sewer system for this place.

GAINESVILLE, FLA.—Bids are asked until Dec. 18 by the Board of Public Works for constructing sewage disposal plant. W. W. Hampton is Secy.

BIRMINGHAM, ALA.—Bids are asked until Dec. 6 by Julian Kendrick, Ch. Engr., Jefferson County Sanitary Comn., for constructing the Woodlawn branch sewer, also for reconstructing 3,000 ft. of the Village Creek trunk sewer.

GREENVILLE, ALA. — CALLAHANE & VANDERVOORT, Jamestown, N. Y., are reported to have contract, at $8,411, for constructing between four and five miles of sewers. Arthur Pew, Atlanta, Ga., is Engr.

NEWPORT, KY.—It is reported that bids will soon be received for sewerage work. P. J. Krebs is Clk.

CINCINNATI, OHIO.—We are officially advised that bids were received Nov. 20 by the Board of Public Service for constructing sewers in Glenway, Second, Third and Fourth Aves. On Nov. 22 the contract was let to J. B. WASHBURN, at $14,964. Other bidders were: J. E. Mahony, $15,250; T. P. Strack, $16,235; McCarthy Bros., $16,487; W. J. Cavanaugh, $17,043. Engineer's estimate, $16,938.

Bids are asked until Dec. 19 by the Board of Public Service for constructing sewers in Menlo and Observatory Aves., at an estimated cost of $32,569. C. N. Danenhower is Ch. Engr. Bd. Pub. Service; M. J. Keefe is Clk.

ST CLAIR, OHIO.—Bids are asked by the Village Council until Dec. 8 for constructing a lateral sewer system. Charles Limberger is Village Clk.

CLEVELAND HEIGHTS (Cleveland postoffice), OHIO.—It is reported that the WATER-WORKS CONSTRUCTION CO., 718 Citizens' Bldg., Cleveland, has been awarded contract for constructing sewers in Cedar Ave., at $34,900.

Bids are asked until Dec. 18 by William G. Phare, Village Clk., 204 American Trust Bldg., Cleveland, for furnishing material and constructing sewers in a portion of Fairfax Road. F. A. Pease Engineering Co., 931 Williamson Bldg., Cleveland, are Engrs.

CLEVELAND, OHIO.—The contracts for constructing sewers in Lakeside Ave., N. E., between (a) East 40th and East 33d Sts., and between (b) East 33d and East 26th Sts., have been let to (a) CHRISTIAN BURKHARDT, 138 Lake St., at $73,848, and (b) WILLIAM DENNON, 139 Ethel Ave., at $71,602. A complete list of bids was published in Engineering News Nov. 22.

Bids are asked until Dec. 4 by the Board of Public Service for constructing sewers in a portion of East 59th St.

Bids are asked until Dec. 4 at the office of A. R. Callow, Secy. Pub. Service, Cleveland, for the construction of sewers jointly for the City of Cleveland and Village of Lakewood in portions of West 117th St. Bernard Miller is Mayor of Lakewood.

LEBANON, OHIO.—Bids are asked by the Village Council, until noon, Dec. 7, for constructing a trunk sewer about 3,380 ft. long; also for a main sewer about 680 ft. long. M. E. Gustin is Village Clk.

MARTINS FERRY, OHIO.—The lowest bid received Nov. 12 by the Board of Public Service for constructing the Sixth District sewer was that of Frank Stringer, at $5,905.

ST. MARYS, OHIO.—The Board of Public Service will receive bids about Jan. 30 for constructing about 14 miles of sanitary sewers, at a cost of about $40,000. The Riggs & Sherman Co., The Nasby, Toledo, Ohio, are Engrs.; F. W. Keuthan is City Engr.

RUSHVILLE, IND.—We are officially advised that Alonzo L. Stewart, City Engr., has been instructed to prepare plans and specifications for a complete sanitary sewer system for Rushville.

KOKOMO, IND.—Bids are asked by the Board of Public Works until 10 a. m., Dec. 3, for construction of the Tharp St. and the Pierce St. sewers. Contracts will be let separately.

ELKHART, IND.—Bids are asked until 10 a. m., Nov. 30, by the Board of Public Works for constructing 12-in. vitrified pipe sewers in Madison and Willard Sts. and Edwardsburg Ave.

RIVER ROUGE, MICH.—M. F. BRAMLEY, Cleveland, Ohio, has contract for constructing sewer system and receiving basins, at $148,500.

FREEPORT, ILL.—It is proposed to construct a sewer system at Freeport, comprising five miles of pipe sewer and one mile of concrete sewer. G. W. Graham is City Engr.

DANVILLE, ILL.—The Board of Local Improvements has let the contract for constructing the North St. storm water sewer to JAMES GANOR, at $29,000. The only other bidder was the Moellering Construction Co., which offered to do the work for $33,000. The entire length of the sewer will be about 8,000 ft. It will be a 36-in. doublering sewer, and will extend from Stony Creek west to the Aetna house, a distance of 2,700 ft., and the balance will be made of sewer pipe from 15 to 24 ins. in diameter.

DES MOINES, IOWA.—The Bids received Nov. 15 by the Board of Public Works for constructing the Grand View sewage system have been rejected, being considered in excess of estimate. It is probable that the work will be divided into three sections, which will be let in separte contracts.

ST. PAUL, MINN.—The following are reported to be the bids opened on Nov. 15 by the Board of Public Works for construction of the South St. sewer system in the northeastern part of city, in the Eighth Ward, to be about five miles in length: Keough Bros., $85,000; Ryan & Johnson, $139,800; John Lind, $140,000, and James Forrestal Co., Scandinavian-American Bank Bldg., $187,000.

VIRGINIA, MINN.—On Nov. 13 C. C. BUTLER was awarded the contract to construct a sanitary sewer in District No. 3 F, by the City Council, at $3,082.

BISMARK, N. DAK.—See under Water Supply and Irrigation.

ATCHISON, KAN.—All bids received on Nov. 17 for constructing sewers in District W have been rejected, and new bids probably will be received on Dec. 3 by Chas. A. Hawk, City Clk. Fred Giddings is City Engr.

TOPEKA, KAN.—Bids are asked until Dec. 3 at the office of J. H. Squires, City Clk., for constructing a sewer in the Fourth Ward.

ARGENTINE (Kansas City post-office), KAN.—It is reported that a vitrified pipe sewer will be constructed at Argentine. Estimated cost, $25,000.

INDEPENDENCE, KAN.—Bids are asked until Dec. 4 at the office of T. N. Sickels, City Clk., for constructing 300 ft. 2-ring circular brick sewer 3 ft. in diameter; also 424 ft., 4-ft. sewer. Estimated cost, $3,500 to $4,000.

FAIRBURY, NEB.—The contract for constructing an 8-in. sewer lateral in Sewer District No. 7 has been awarded to the KING-LAMBERT CO., of Des Moines, Iowa. Estimated cost, $6,070. Bids were received Nov. 17.

Bids are asked by F. L. Rain, City Clk., until Dec. 18 for construction of a sewer lateral in Sewer Districts 4 and 5. Estimated cost, $3,600.

OMAHA, NEB.—R. L. KENNEDY & CO. has secured contract for constructing sewer at Wallnut Hill, at $18,063. Andrew Rosewater is City Engr.

CARTHAGE, MO.—The City is preparing to construct a sewer system requiring about 4,500 ft. of 8 and 10-in. pipe. The paving of about three blocks of street is said to be contemplated. I. F. Shannon is City Clk.

DERMOTT, ARK.—Bids are asked until Dec. 1 for constructing about one mile of drainage ditch and about 13,450 ft. of sewers. Theo. Hartman is Consult. Engr., 1122 Center St., Little Rock, Ark.

GUTHRIE, OKLA.—Bids are asked on Dec. 5 for 1,540 lin. ft. of sewer in Sewer District 33. W. W. Miller is City Engr.

SAN FRANCISCO, CAL.—Bids are asked by the Board of Public Works until Dec. 17 for construction of sewers. Cost, $1,000,000.

WHITTIER, CAL.—Plans are being considered for the construction of a sewer at a cost of $100,000. Walter E. Butler is City Clk.

BRIDGEBURG, ONT.—The plans for the extension to the sewerage system here are being considered by the Provincial Board of Health.

HAMILTON, ONT.—A by-law will be introduced to raise $120,000 for the carrying out of the east end sewerage arrangements.

## GARBAGE DISPOSAL.

*The names of parties awarded contracts are printed in capital letters.*

NEW YORK, N. Y.—Bids are asked until noon, Dec. 27, by George Cromwell, Pres. Boro. of Richmond, for furnishing plans for the foundations, building, runway, connecting flues and chimney of a refuse destructor to be built at West New Brighton in addition to furnishing all plans, specifications, supervision, labor, materials and appurtenances necessary for erection and completion of the furnace and steam boiler portion of the proposed destructor at West New Brighton, Boro. of Richmond.

SCHENECTADY, N. Y.—The Board of Health is reported to have adopted a resolution that a disposal plant for garbage and sewage be established. It will now be brought to the attention of the City Council.

ROCHESTER, N. Y.—The following bids were received for garbage collection, etc.: Thomas Holahan, garbage collection and erection of plant outside city, $96,000 a year; Charles W. Hartung, 70 Ontario St., for collecting and disposing of garbage if city provides plant, $80,000 a year; Charles Edgerton, of Philadelphia, garbage collection and erection of plant outside city, $80,000 a year; Empire Reduction Co., represented by C. E. Titman and E. M. Cooper, for garbage disposal and erection of plant in city, $59,770 a year; for garbage collection and erection of plant outside city, $75,000 a year. The bids have been referred to Edwin A. Fisher, City Engr.

DES MOINES, IOWA.—We are officially advised that bids were received by W. E. Cole, Q. M., as follows, for constructing crematory, etc., at Fort Des Moines: (A) Crematory building, complete, plan special 1-620; (B) veterinary stable, plan 196; (C) shelter for mounted guard, plan B, special; (D) additions to and alterations in subsistence storehouse, plan 3-562, special C, (E) bakery; (F) total:

Charles Weltz's Sons, Des Moines, (A) fuel room and oven foundation, $2,147; (A)—alternate "A," $2,140; (A)—if alternate "C," all for $3,000; (B) $17,541; (B)—if alternate "A," $16,810. (C) $1,989; (C) alternate "A," $1,889; (D) $9,172; (E) $485; (F) $31,324.

C. E. Atkinson, Webster City, Iowa: (A) fuel room and oven foundation, $4,462; (B) $22,452; (C) $2,570; (D) $11,780; (E) $472; (F) $41,745.

M. A. Blanchard, Topeka, Kan., (A) fuel room and oven foundation, $4,082; (B) alternate "B," $22,369; (B) alternate "C," $22,146; (C) $2,813; (D) $12,989; (E) $654; (F) $42,579.

J. E. Tusant, Des Moines, (B) brick foundation, $18,424; (B) concrete foundation, $18,624; (B) stone foundation, $18,324; (D) $7,154; (F) $25,578.

Cremator: (AA) crematory and cremator, complete, per plans submitted; (BB) cremator, complete; (CC) crematory building proper, complete, plan 1-620. Lewis & Kitchen, Chicago: (BB) $3,982; steel chimney lined 20' with fireclay tile, $880; steel chimney lined entire length with fireclay tile, $1,295; brick chimney, $1,975; (CC) $2,790.

Morse-Boulger Destructor Co., New York: (AA) $7,888; (BB) with steel stack, $5,333; with brick chimney, $962; (CC) $2,555.

Dixon Garbage Crematory Co., Toledo, Ohio: (AA) $6,815 and $8,190; (BB) $5,875; (CC) $3,000.

Machinery, etc., Werner & Pfleiderer, Saginaw, Mich., $5,140.

## STREETS AND ROADS.

*The names of parties awarded contracts are printed in capital letters.*

BOSTON, MASS.—Plans have been prepared for construction of a boulevard to extend from the Fens to the Harvard Medical School on Longwood Ave. Salem D. Charles, James A. Gallivan, 353 West Fourth St., South Boston, and William E. Hannan, 34 School St., Boston, are Boulevard Comrs.

VERNON, CONN.—Bids are asked until Dec. 3 by the Board of Selectmen, P. B. Leonard, Chn., for constructing a macadam-telford section of road in this town.

BETHANY (New Haven post-office), CONN.—O. T. BENEDICT, of Pittsfield, is reported to have secured the contract for constructing gravel road in Bethany, for $4,400.

NIAGARA FALS, N. Y.—The Board Public Works is stated to have awarded the contract for paving Main, McKoon and Whitney Aves., to WARREN BROS. CO., 93 Federal St., Boston, Mass., at $55,000.

WATERVLIET, N. Y.—Bids are asked until Dec. 3 by the Board Public Improvements Commission for paving a portion of Sixth Ave. with vitrified Metropolitan paving brick or vitrified Mack paving brick or other paving brick of equal quality. W. G. Staley is Secy.

DENTON, MD.—Bids are asked until Dec. 4 by the Board County Commissioners for improving the public highway between Greensboro and Denton, to consist of the grading and macadamizing of about 0.8 miles of road and the erection of a steel concrete bridge. I. L. Dukes is Clk.

BALTIMORE, MD.—PATRICK FLANIGAN & SONS have secured the contract for macadamizing Massachusetts Ave., from Augusta to Loudon Ave., at $4,970.74.

ATLANTIC CITY, N. J.—Bids are asked until 3.30 p. m., Dec. 10, by the City Council for various kinds of paving at Atlantic City. J. W. Hackney is City Engr. (Advertised, Enginering News.)

TITUSVILLE, PA.—It is reported that the proposed asphalt paving work will cost about $70,000. Bids will be asked for in about three months. Herbert A. Holstein is City Engr. W. Dame is City Clk.

PHILADELPHIA, PA.—Referring to the proposed parkway to be constructed between Logan Sq. and Fairmount Park, J. A. Hunter, Ch. of Bureau of Highways, writes us: "Specifications for removing the obstructions and plans for the proposed work are now being prepared but the legal formalities towards the opening of the parkway have not yet been completed and it is probable that no work will be started until the spring. It will take some time to prepare plans and it will be about three months before the legal opening of the parkway will have been accomplished, therefore, no immediate steps will be taken towards doing this work."

CHARLESTON, W. VA.—See under Bridges.

WINSTON-SALEM, N. C.—The City is considering the expenditure of $200,000 for road work. R. L. Greenlee is City Engr.

COLUMBIA, S. C.—It is reported that the city will expend about $50,000 on street improvements.

ROCKHILL, S. C.—Arrangements are being made for paving the sidewalks throughout the city with cement, and a committee has been appointed to receive bids for same. C. S. May is Secy.

ATLANTA, GA.—See under Bridges.

MONTGOMERY, ALA.—We are officially advised that bonds have been issued by the County to provide funds for improvements to county roads. M. B. Houghton is Pres. County Bd. of Revenue.

MOBILE, ALA.—On Nov. 15 appeared the following item: "We are officially advised that the SOUTHERN BITULITHIC CO., Nashville, Tenn., on Nov. 8, secured contract, at $87,441, for paving 40,670 sq. yds. with 2-in. bitulithic on 4-in. concrete foundation. The National Bitumen Co. bid $85,407 for laying 40,670 sq. yds. bitu-mineral and foundation. J. J. McMahon is Asst. Secy.; Wright Smith is Ch. Engr. Bd. of Pub. Works." We are informed by the National Bitumen Co., Indianapolis, that "this article is incorrect and will perhaps do an injustice to this company. The Southern Bitulithic Co. made a combination bid on sewer work and paving work, which amounted to $150,114; and they especially stated that their bid must be accepted as a whole or not at all. The bid on bitu-mineral pavement was for pavement only and did not include the sewer work. The lowest bid on the sewer work was $74,967, which, added to the cost of bitu-mineral pavement, $85,407, amounted to $160,374. The Bitulithic Co. was, therefore, the lowest bidder by $10,260. Your item as it stands, if uncorrected, would create the impression that the Bitulithic Co. was awarded the contract on bitulithic pavement at a higher figure than bitu-mineral; which is not the case."

NEW ORLEANS, LA.—Bids are asked by Charles R. Kennedy, City Comptroller, until 1 p. m., Dec. 3, for the following work: For the construction of artificial stone foot walk at Annunciation Sq., Race St. side, from Chippewa St. to Annunciation; for paving with asphalt Howard Ave., lower side, from Baronne to Rampart Sts.; for subsurface drains, culverts, curbs and gutter bottoms, and sidewalk pavements, all in accordance with plans and specifications on file in the office of the City Engineer.

NATCHEZ, MISS.—A committee has been appointed to secure specifications for street paving.

LOUISVILLE, KY.—HUMPICH & STAEBLER are reported to have secured contract, at $18,500, for paving several alleys with brick.

CANTON, OHIO.—TURNBULL BROS. have been awarded contract for paving East Tuscarawas and Lake Sts. Hadley brick with a tar filler and sandstone curbing will be used on the East Tuscarawas work and Metropolitan block with a tar filler; on East Lake St. Berea flagstone sidewalks and sandstone curbing will be placed.

ADDYSTON, OHIO.—Bids are asked until Dec. 11, for improving and paving Cincinnati Ave. W. T. Coleman is Clk.

DAYTON, OHIO.—The Board of Public Service has awarded the contract for grading and graveling Crothers St. from Coate Ave. to Second St. to DAVID A. ONKST, and for grading the roadway and paving the sidewalk on Holt St. from Easton St., to Broadway, to CHARLES F. SULLIVAN. Robert E. Kline is City Engr.

COLUMBUS, IND.—Bids are asked until 10 a. m., Dec. 3 by the Board of Commissioners of Bartholomew County for constructing about one mile of road in Haw-Creek Township. William A. Morris is Audr., Columbus.


**READERS' WANTS** FOR THOSE IN THE MARKET

The readers of ENGINEERING NEWS are constantly in the market for great quantities of machinery, tools and general supplies. While our thousand advertisers are usually able to furnish the material desired, yet there are many things wanted by our readers that are not advertised, although connected with engineering and contracting directly or indirectly. This department (R-W) is for this class of inquiries, and we urge our readers to keep us informed. Enclose five cents in stamps and we write to a number of leading manufacturers without further cost. When writing to our advertisers, who are the leaders in their respective lines, mention Engineering News. Have you a copy of our Buyers' Guide? Engineering News Can Help Buyers.


RIVETERS AND CEMENT.—Birmingham, Ala.—The Southern Bridge Co., Birmingham, Ala., writes us that it in the market for riveting machinery and about 900 bbls. cement.

TURBINE WATER WHEEL.—Laurel Bloomery, Tenn.—George W. Maxwell, Laurel Bloomery, Tenn., writes us that he is in the market for a 10 to 30-HP. turbine water wheel.

WOOD BLOCK PAVEMENT.—Petersburg, Va.—John W. Hays, C. E., Petersburg, Va., desires information relative to the cost of wood block pavement, exclusive of concrete foundation.

CONCRETE BLOCKS.—Plainfield, N. J.—A. Nicolaysen, 734 East Seventh St., Plainfield, N. J., writes us that he desires information relative to the manufacture of concrete blocks.

GYPSUM MILL.—Lisbon, Portugal.—We are in receipt of a letter from Pires Ramos & Co., 42 Rua de D. Carlos, Lisbon, Portugal, stating that he desires to purchase a machine for milling gypsum.

CEMENT, GRADING MACHINERY, HOISTS, PLOWS, ROCK DRILLS, SCRAPERS, TRENCH BRACES, DUMP WAGONS, ETC.—Birmingham, Ala.—C. M. Burkhalter, Birmingham, Ala., writes us that he is in the market for cement, road graders, hoisting machinery, plows, rock drills, road scrapers, trench braces, dump wagons and other contractors' equipment and supplies.

CEMENT BAGS.—Dinting, Eng.—We are in receipt of a letter from John Barr, Dinting Lodge, Dinting, England, requesting information in regard to manufacturers of paper bags for use in packing cement.

TRACK-LAYING MACHINERY.—New Orleans, La.—We are alvised by the Southern Construction Co., New Orleans, La., that information is wanted concerning the manufacture of track-laying machinery.

FOUNDRY EQUIPMENT.—Grand Rapids, Mich.—We are advised that Westinghouse, Church, Kerr & Co., New York, in charge of the restoration and extension of the Grand Rapids Malleable Works, recently damaged by fire, are in position to purchase machinery for this work.

TURBINE WATER WHEEL, BELTING, ETC.—Laurel Bloomery, Tenn.—Geo. H. Robinson writes us that Geo. W. Maxwell, of this place, is in the market for a turbine water wheel of about 30-HP., and also belting cloth for a buckwheat mill.

BOILERS, CEMENT, CRUSHERS, DERRICKS, DITCHERS, ENGINES, HOISTS, PUMPS, DRILLS, TENTS, ETC.—Dallas, Tex.—The O'Neil Engineering Co., Dallas, Tex., informs us that it is in the market for contractors' equipment and supplies, consisting of two 200-HP. boilers, 450 bbls. cement, rock crushers, derricks, ditching machinery, hoists, one 550-gal. pump, rock drills, tents, trenching machines and wire rope.

INDIANAPOLIS, IND.—The Board of Public Works will receive bids for the following improvements: For brick roadways in first alley west of West St., from Washington to Maryland Sts.; first alley south of Vermont St., from East to Noble Sts.; first alley north of Morris St., from Chadwick to West Sts.; first alley east of Park St., from St. Clair to Eleventh Sts.; first alley west of Alabama St., from 25th to Fall Creek; first alley north of 13th St., from Delaware to College Sts., and in Roanoke St., from Michigan to Tenth Sts. Blaine H. Miller is City Engr.

DETROIT, MICH.—It is reported that about $300,000 will be expended in widening and extending Washington Boulevard. J. J. Haarar is Comr. Dept. Pub. Wks.; Robert H. McCormick is City Engr.

GRAND RAPIDS, MICH.—The City Council has decided to pave Wealthy Ave. from South Ionia St. to Ellsworth Ave. at $11,520, and Sysbee St., from South Fuller St. to Ethel Ave., at $8,190. John L. Boer, City Clk.

CHAMPAIGN, ILL.—The City Engineer estimates that $200,000 worth of paving will be constructed next year. G. C. Fairdo is City Engr.

FREEPORT, ILL. — Petitions have been presented to the Board of Local Improvement for paving Walnut St. with brick and the macadamizing of Homer, Chestnut and American Sts., comprising about 50,000 yds. macadam and 40,000 yds. of brick. G. W. Graham is City Engr.

DES MOINES, IOWA.—Bids are asked until Dec. 1 by the Board Public Works, for paving with asphalt on a 6-in. cement concrete foundation Forest Drive, 29th St., and Ridge Road, about 7,053 sq. yds. W. W. Wise is Chn. George D. Dobson is City Engr.

GREAT FALLS, MONT.—The contract for constructing a boulevard on Ninth Ave. south is reported to have been awarded to W. A. SPENCE, at $3,891. C. W. Swearingen is City Engr.

ST. LOUIS, MO.—Bids are asked until Dec. 4 by the Board of Public Improvements for constructing sidewalks on portions of numerous streets. A. J. O'Reilly is Pres.

ST. JOSEPH, MO.—The Board of Public Works on Nov. 17 awarded to N. H. STARMER contract to grade Jule St., from 29th to 30th Sts. His bid was 20½ cts. per cu. yd. The bid of D. B. Kelly was 22½ cts., and that of J. H. Hartman was 30 cts.

The Board recommended to the City Council the passage of an ordinance for laying sidewalks on 23d St., from Union to Faraon St. W. H. Floyds is City Engr.; Joel E. Gates is City Clk.

DALLAS, TEX.—FRANK TEICH, Llano, Tex., has been awarded contract to furnish 500 cars of blue and gray granite to a Dallas concern to be used for paving Dallas St.

OKLAHOMA, CITY, OKLA.—The Mayor and City Council are reported to have passed resolutions providing for paving portions of Eighth, East Fifth and West Main Sts. W. C. Burke is City Engr.

TACOMA, WASH.—Contracts for paving are reported to have been awarded on Nov. 5 by the Commissioner of Public Works, as follows: Grading a portion of South 54th St., to F. A. KEARSAL, 1004 North O St., at $7,500; grading portion of I St., to LISTER CONSTRUCTION CO., $11,435; grading and constructing sidewalks on Stevens St., to CARLSON & SWANSON, $2,218. Owen Woods is Comr. Pub. Wks.; Frank L. Davis is City Engr.

LOS ANGELES, CAL.—Contract for improving Witmer and Acadia and Columbia Ave., has been awarded to the METROPOLITAN CONTRACTING CO., Wilson Bldg., Los Angeles, at $56,803. The next lowest bidder was H. J. McGuire, who bid $63,777.

SACRAMENTO, CAL.—The contract for paving Front St. from I to N Sts., with basalt blocks, on a concrete foundation, has been awarded to the CITY STREET IMPROVEMENT CO., of San Francisco, at $24,253.

SALT LAKE CITY, UTAH.—At a recent meeting of the Committee on Streets of the City Council it was decided to instruct the Board of Public Works to advertise for bids for grading, curbing, guttering and macadamizing Ninth East St., from South Temple St. south to the city limits; and Tenth East from South Temple to Fifth South Sts. The bids for the work will be opened by the board of public works in February so that the improvements can be started early in the spring. The estimated cost of the improvement on Ninth East St. is $95,765 of which $70,429 will be paid by the property owners and the City will pay $25,336. The total cost of the Tenth East St. Improvement will be $35,852, of which the property owners will pay $23,110 and the city will pay $12,742. Louis C. Kelsey is City Engr.

TORONTO JUNCTION, ONT.—It is estimated that the brick paving proposed for Dundas St will cost $56,400.

TORONTO, ONT.—It is stated that the extension of Harbord St., from Clinton St to Ossington Ave., is contemplated, including the construction of a bridge over the ravine at a probable cost of $58,000.

EDMONTON, ALTA.—It is probable that about 80,000 sq. yds. of bitulithic pavement will be purchased by this city in the spring from the Warren Bituminous Paving Co., of Toronto, Ont., and about 30,000 sq. yds. of fir blocks will be purchased from the Dominion Carbolinum Co., of Vancouver, B. C. P. P. Kelly is City Engr.

## MANUFACTURING PLANTS.

*The names of parties awarded contracts are printed in capital letters.*

HOLYOKE, MASS.—Plans have been prepared for a new factory to be erected by the Powers Paper Co. It is to be a 4-story building, 200 × 300 ft. Estimated cost, $200,000.

NEW BEDFORD, MASS.—The Quansett Spinning Co. has been organized with a capital of $800,000, and will erect a 3-story mill 100 × 60 ft. and a warehouse two stories high. The officers of the company are: William C. Hawes, Pres.; Frederick H. Taber, Treas.; and directors are Rufus A. Soule, Rufus A. Soule, Jr., Mayhew R. Hitch and Abbot P. Smith. Plans were prepared by C. R. Makepeace & Co., Archs., of Providence. The B. F. SMITH CO., of Pawtucket, has been awarded the contract

OLNEYVILLE, R. I.—The Crown Worsted Mill will erect an addition to its mill.

BRIDGEPORT, CONN.—The Bridgeport Wood Finishing Co. has increased its capital stock from $25,000 to $400,000 for the purpose of enlarging its plant.

GLOVERSVILLE, N. Y.—Fear & White will erect a 4-story addition, 69 × 39 ft., to their glove factory on Gas St.

SYRACUSE, N. Y.—The Lewis Knitting Co. of Sauquoit has purchased the large 3-story factory of the Arnold Furniture Co. and will remodel it into a knitting mill, which will employ 50 to 100 hands.

BURLINGTON, N. J.—The Wellman, Seaver, Morgan Co., Cleveland, Ohio, are preparing plans for a large machine shop to be erected by the United States Cast Iron Pipe & Foundry Co. It is to be a 1-story brick and steel frame building of fireproof construction. The improvement will fill deep ravines in the Crown Hill district, and the contractors will cut down Klondike Hill for this purpose and at the same time create residence lots on the hill side. Homer Hamlin is City Engr.; H. J. Lelande is City Clk.

TRENTON, N. J.—The H... Throwing Co. has been incorporated at ... with a capital of $25,000 to manu... ester with other textile fabrics. The in... silk and Xavier Bossart, Han Hafer ... rators are Hungiken. Gustav A.

PATERSON, N. J.—The f... to be erected by A. & M. Levy here ... consist of two separate buildings, th... one of four stories, 400 × 60 ft., a... power-house of one story high will b... structed. The buildings will be of br... with wood beams and a monitor roof. A... flshing system will be installed, also ... water tanks, one with a capacity of ... gallons and the other with 5,000. A ... with a capacity of 75,000 gallons, ... be con-structed at the rear of the mill. ... floors will be used as weaving depart... and the ground floor and basement will ... auxil-lary machinery and department... the ma-chinery is to be 200 of the large... Knowles looms.

ALLENTOWN, PA.—The Alle... Portland Cement Co. has been incorp... with a capital of $2,000,000. The co... will erect a Portland cement plant ... miles north of this city. The capa... of the plant will be 4,000 barrels a ... The company has its offices in the ... National Bank Bldg.

F. Schwartz & Son, trousers ma... in the Nagle Bldg., at Seventh ... Sts., purchased from the Nonn... tate the plot of ground on the ... side of Linden St., between Tenth an... toward Sts., on which they will, in sprin... erect a large factory for the increasing ... business. The plot is 80 × 115 ft. in size.

EPHRATA, PA.—Bids are ask... by the Garman Cigar Co. for the erect... of a 3-story brick factory building.

MORRISTOWN, PA.—L. G. Str... is having plans prepared for the er... of a bakery and stable. It is to be a ... brick building. Power equipment and ... machinery will be installed.

PHILADELPHIA, PA.—The Joseph ... & Sons Co. will erect a hosiery mill in ... York borough.

BALTIMORE, MD.—The Co-Operative ... Ice Co. has been incorporated with ... stock of $200,000 to manufactur... Grant Stockham, Pres., 706 Americ... Bldg.; Robert E. Newcomer, Vice-Pres. and Gen. Mgr., 119 North Fulton Ave., and C. A. Browne, Calvert Bldg. An ice plant with capacity of 150 tons a day will be erected in the center of the city, at a cost of $175,000.

Henry Meyer & Co., 3601 Elm Ave., will have plans prepared for a 3-story brick addition to their shirt factory. Power equipment and special machinery will be installed.

WASHINGTON, D. C.—The Carter Motor Car Co. will erect a factory here for the manufacture of automobiles. A. Gary Carter, 471 Florida Ave. N. W., is Pres.

SALISBURY, N. C.—The Salisbury Steam Laundry will rebuild its plant, which was recently burned at a loss of $12,000. The new plant will cost about $20,000.

COLUMBUS, GA.—The Swift Spinning Mills have been incorporated with a capital of $125,000 by E. W. Swift, J. P. Kyle and Clifford Swift, for the purpose of erecting a plant for the manufacture of yarns.

ROME, GA.—The Concord Mfg. Co. has been incorporated by G. L. Johnson, A. E. J. G. and J. P. Johnson, with a capital of $100,000 for the manufacture of cotton yarns, cotton and wool cloth.

HUNTSVILLE, ALA.—The Abingdon Cotton Mills have decided to build an addition and install considerable new machinery. The addition will be 60 × 80 ft., and will cost about $15,000. This mill was formerly operated under the name of the Madison Manufacturing Co.

SELMA, ALA.—The Winona Portland Cement Co. has been organized with a capital of $1,000,000, and will erect a plant at Epps, Ala. The cost of the plant will be about $800,000. J. P. Wetherbee is Vice-Pres., Houston Armstrong is Treas., and W. Cater, Jr., is Asst. Treas.

ALGIERS (New Orleans post-office), LA.—The Murphy Lumber Co., manufacturers and exporters of lumber and boxes, is completing arrangements for a factory and private wharf here. The box factory will be 100 × 200 ft. and the wharf will be 225 × 38 ft.

NASHVILLE, TENN.—The Hill Trunk Co. will erect a large factory at once on Fifth Ave., North, between Deaderick and Union Sts. It will be 4-story and basement, of brick, trimmed with stone 37 × 180 ft. C. A. Ferguson is the Arch. Estimated cost, about $25,000. John Langham is Pres. of company.

LOUISVILLE, KY.—The box factory of the Bell & Caggeshall Co., which was recently destroyed by fire, causing a loss of $70,000, is to be rebuilt. C. W. Embry is Pres.; James P. Gregory is Vice-Pres., and H. W. Embry is Secy. and Treas.

WARREN, OHIO.—The Penn Shovel Co., of Warren, Ohio, and the Hanna & Young Co., of Poplar Bluffs, Mo., have been consolidated. The parent company will have a capital stock of $350,000 and will build a skelp mill in Warren. A factory for the manufacture of shovel handles will also be built.

HAMMOND, IND.—John G. Richards, of Braddock, Pa., has purchased a 73-acre site near this city upon which to build an immense coke plant to supply the new steel industries. This work will be let to contract.

HUNTINGTON, IND.—The Western Lime Co., operating about 30 plants, has decided to install electricity and electrical equipment for the operating of the crushers, compressors, loaders and all other machinery. The company is preparing to receive bids for this equipment. Peter Martin is Pres.

RUSHVILLE, IND.—MORRIS WINSHIP has been awarded a contract to erect a large manufacturing plant in this city for C. E. Francis & Bro. Mfg. Co., at $40,000.

INDIANAPOLIS, IND.—The BEDFORD STONE CONSTRUCTION CO. has been awarded a contract for the construction of a new plant for the Morning Star. The building will consist of a basement and three stories high of brick, stone and have a slate roof. Kemper & Bohn, 610-614 Indiana Trust Bldg., are Archs.

KALAMAZOO, MICH.—F. W. Bascomb, Mgr. of the Cadillac Shirt Co., and Ira F. Weldon, manufacturer of neckwear, both of Detroit, and E. E. Cable, of this city, have formed a partnership to establish a shirt, waist and neckwear factory here.

DETROIT, MICH.—It is reported that the Rowley Bread Co., of St. Louis, Mo., is to remove its plant here. The plant to be located on St. Aubin Ave. Donaldson & Meier, Archs., 314 Penobscot Bldg., are preparing the plans for the plant.

GRAND RAPIDS, WIS.—The Grand Rapids Furniture Co. will have plans prepared for a factory building to cost about $50,000. W. R. Wright is Pres.

TWO RIVERS, WIS.—Bids are asked until Dec. 1 for the erection of a factory building for the Aluminum Mfg. Co. It is to be 42 by 164 ft. and cost $35,000.

DALLAS, TEX.—We are officially advised that the Iola Portland Cement Co. of Iola, Kan., will erect a 3,500-barrel addition to its plant here. Main building is to be 80 × 100 ft. and to be of steel. Machinery will be motor-driven, operated from a central station; generators driven by gas engines. A producer gas plant will be installed. Plant will cost $1,250,000.

HOUSTON, TEX.—A new trunk factory is to be established here. L. A. Freyer is at the head of the concern. About $50,000 will be invested.

SPOKANE, WASH.—The Safety Mfg. Co., recently incorporated by John E. Argo, Burr Blood, John McGhie, Clifford C. Moore and Joseph A. Morrill, will erect a factory building to cost $100,000 this winter. The company is incorporated in Washington for $500,000.

SANDPOINT, IDAHO.—Plans are being prepared for the erection of a treating plant by the Northern Pacific Ry. Co. Estimated cost, between $150,000 and $200,000. F. G. Prest is Pur. Agt. at St. Paul, Minn.

SYDNEY, N. S.—The citizens have unanimously voted the granting to a company for the manufacture of railway construction materials a bonus of $50,000 at 4 per cent. interest on 30-year debentures, exemption from taxation for ten years, and water at the minimum of 6c. per 1,000 gallons. The conditions are that the company (not yet formulated) spend $400,000 in construction work, including machinery, and employ 250 men.

SAULT STE. MARIE, ONT.—A big smelter is to be erected at Dead Lake by the Northern Ontario Copper Company. It will be the first in Canada, and will handle ore which now goes to Illinois. Work will start at once. Several new mines will ship ore there.

GUELPH, ONT.—Victoria Biscuit Co. will erect a new factory, cost $20,000.

## MISCELLANEOUS CONTRACTS.

***The names of parties awarded contracts are printed in capital letters.***

DOCK.—Port Credit, Ont.—The Port Credit Brick Co. will construct a new dock here.

WHARF.—New Castle, Del.—J. J. WILLIAMS, of Chester, Pa., has been awarded contract for building a wharf, 800 ft. long, for the Baldt Steel Co.

DREDGING.—New York, N. Y.—Bids are asked until noon, Dec. 28, by Col. D. W. Lockwood, U. S. Engr., Army Bldg., New York, for dredging in Bronx River and East Chester Creek, N. Y. (Advertised, Engineering News.)

SIGNALING APPARATUS.—Boston, Mass.—The Boston & Maine R. R. Co. has awarded a contract, it is reported, to the UNION SWITCH & SIGNAL CO., Swissvale, Pa., for installing a block signal system on about 1,000 miles of its lines. J. V. Young, Boston, is Supt. Sig.

MANUAL TRAINING EQUIPMENT.—New York, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., Dept. Education, until 11 a. m., Dec. 10, for manual training equipment in Stuyvesant High School, on 15th and 16th Sts., west of First Ave., Boro. of Manhattan.

DRAINAGE.—Rockwell City, Iowa.—Bids were received on Nov. 15 by the Board County Commissioners for constructing a drainage system in Lake Creek and Twin Lake Townships, and contract has been let to E. Z. SMITH, of Rockwell City. Thomas Parsons is Chn. Bd. Supervisors.

WHARF, FIRE EQUIPMENT.—Berkeley, Cal.—At the recent election it was voted to issue bonds for the following improvements: $137,000 for a town hall; a city wharf on the bay shore at a cost of $100,000; a fire-fighting equipment, costing $50,000, and a police alarm system, at a cost of $11,100.

CRANES.—Portsmouth, N. H.—Bids are asked until 11 a. m., Dec. 22, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for four electric traveling cranes for the Portsmouth Navy Yard. Mordecai T. Endicott, Ch. Bureau. Specifications are on file at office of Engineering News, New York.

ORDNANCE.—Washington, D. C.—Bids were opened Nov. 26 at the Bureau of Ordnance, War Dept., Washington, D. C., for furnishing four sets of ¾-in. steel forgings. Bids were: Midvale Steel Co., 40 cts per lb.; delivery 85 days; Bethlehem Steel Co., South Bethlehem, Pa., 40 cts. per lb., delivery 112 days.

COKE OVENS, ETC.—Connellsville, Pa.—The "Wall St. Journal" states that "the People's Coke Co. is being formed in Pittsburg with $2,000,000 capital, and has purchased 2,300 acres of coking coal for about $800 per acre on the outskirts of the Connellsville district near Brownsville, and will develop it, erecting at once 400 coke ovens. Locations are being made for three mines."

STEEL STEAMER.—San Francisco, Cal.—Capt. H. T. Payne, representing Olsen & Mahoney, of San Francisco, has closed a contract with the Harlan & Hollingsworth Corporation, of Wilmington, Del., for a steel lumber steamer. The vessel will ply between San Francisco and Puget Sound ports, and will be delivered by June 15, 1907. It will cost $195,000, and will be 240 ft. over all.

WHARF APPROACHES.—New Orleans, La.—On Nov. 24 bids were received as follows by the Bureau of Yards and Docks, Navy Dept. for strengthening cross wharf approaches to floating dock at the Naval Station in New Orleans: Milwaukee Bridge Co., Milwaukee, Wis., item 1, $76,400; item 2, $64,900; item 3, $11,600. Penn Bridge Co., 312 Bond Bldg., Washington, D. C., item 1, $79,235; item 2, $69,235; item 3, $14,300.

DREDGING.—Boston, Mass.—The Bureau of Yards and Docks, Navy Dept., Washington, rejected all bids received Sept. 20 for dredging at the Boston Navy Yard, and reissued modified specifications for the same work, for which bids were asked until Nov. 24. But one bid was received, that of the Eastern Dredging Co., 247 Atlantic Ave., Boston, as follows: Item 1, 44 cts. a cu. yd.; item 2, 41 cts. a cu. yd.; item 3, 88 cts. a cu. yd.

DAM.—Oroville, Cal.—Plans for the construction of a large dam to be 550 ft. long and 70 ft. wide at the bottom, to turn aside the Feather River from a new channel it is cutting at a point near the Bonito ranch, a few miles below this city, have just been completed by O. W. Jasper, Engr. The dam is intended to force the river back into its old channel and will cost about $10,000. Its construction means that 3,000 acres of rich land threatened by the river will be saved.

NEW TOWN.—Richardson, Miss.—The Ozona Suburban Development Co., of New Orleans, La., of which Edward S. Maumsell is Pres.; George H. Appel, Vice-Pres.; W. D. Seymour, Secy., and Joseph Collins, Treas., has purchased about 30,000 acres of land on the Queen & Crescent Route, between Richardson and Picayune, Miss.; 500 acres will be laid off as a townsite, to be known as Ozona. Electric lights will be installed, hotels and residences erected, etc. An artificial lake will also be constructed.

ORDNANCE.—Washington, D. C.—The Bureau of Ordnance, Navy Dept., Washington, has awarded to the FIRTH-STERLING STEEL CO., Home Life Bldg., D. C., contract for furnishing forged steel armor-piercing shells, as follows: 1,000 6-in., $25 each; commence delivery in 150 days; complete 20 per week thereafter; 1,000 7-in., $45 each; same delivery; 1,000 8-in., $62.50 each; same delivery; 1,000 12-in., $190 each; commence delivery 150 days; complete 23 per week thereafter. The prices asked by the Firth-Sterling Co. were a little more than half those asked by the Bethlehem Steel Co. and the Midvale Steel Co. Bids were opened Nov. 14.

TELEPHONE FRANCHISE.—Milwaukee, Wis.—The City Council has granted a franchise to the Milwaukee Independent Telephone Co. The new company will use automatic telephone instruments. The officers are: Pres., H. D. Critchfield, Milwaukee; First Vice-Pres., E. A. Wadhams, Milwaukee; Sec. Vice-Pres., C. S. Van Nortwick, Appleton, Wis.; Secy., Clifford Arrick, Indianapolis, Ind; Treas., Howard Greene, Milwaukee. Directors, John M. Baer, Appleton, Wis.; W. W. Cargill, La Crosse, Wis.; C. J. Chapman, Milwaukee; J. C. Harper, Madison, Wis.; B. J. Hubbard, Buffalo, N. Y.; Alvin P. Kletsch, George P. Mayer, Wilmer Sieg, Richard G. Wagner and J. B. Whitnall, of Milwaukee; and Richard Valentine, Janesville. President Critchfield states that the company will spend $2,500,000 on its plant in Milwaukee.

RETAINING WALL.—Philadelphia, Pa.—Bids were received as follows by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., on Nov. 24, for constructing a continuation of the retaining wall south of the reserve basin, Navy Yard, League Island, Pa.: McGaw & Gray, 710 Pennsylvania Bldg., Philadelphia, $110,400; American Paving & Construction Co., 211 South Ninth St., Philadelphia, $78,589; J. H. Stitzer, Jr., 917 Commonwealth Trust Bldg., Philadelphia, $92,985; Edward F. Fonder, 1116 Land Title Bldg., Philadelphia, $85,380; The Lawler Bros. Construction Co., 13 Park Row, New York, $93,000; W. L. Gallagher & Co., 1435 Real Estate Trust Bldg., Philadelphia, $91,626; Latta & Terry Construction Co., 1319 Pennsylvania Bldg., Philadelphia. Item 1, $100,300 and $107,500; item 3, $106,700; $106,500; $104,500; $105,500.

## U. S. POSSESSIONS AND CUBA.

IRON PIPE.—Panama.—Bids were opened Nov. 21, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., under Circular 339, Class 1, for furnishing 219,000 ft. galvanized-iron pipe, sizes from ¼-in. to 4 ins. Bids were as follows: Cuyler & Mohler, Baltimore, $28,337; time, 40—120 days. E. F. Keating Co., New York, bid A, $28,855; time, 10—45 days; bid B, $31,600, same time. Stauffer, Eshleman & Co., New Orleans, bid A, $30,388; bid B, $27,348; time, 30—60 days. U. S. Steel Products & Exports Co., New York, $28,604; time, 72—100 days.

## CONTRACT PRICES.

**(Where (*) precedes items under Contract Prices the work was advertised in Engineering News.)**

*SUBWAY.—Reading, Pa.—Eight bids were received on Nov. 7 for construction of the subway under the Philadelphia & Reading Ry. tracks at Spring St., an extension of time from Oct. 17 and Oct. 23. Elmer H. Beard, City Engr. Contract was awarded to L. H. FOCHT & SON, Reading, at $146,053. Their bid in detail was as follows:

220 ft. 10-in. c.-i. pipe, per lin. ft., $1.25; 274 ft. 12-in. tile pipe, per lin. ft., 45 cts.; concrete in place, for 10-in.. c.-i. pipe, per lin. ft., 30 cts.; concrete in place, for 12-in. tile pipe, per lin. ft., 38 cts.; 20 concrete manholes and covers, per vertical ft., $4.25; all iron work, complete, $66,500; 3,730 sq. yds. vitrified brick paving, per sq. yd., $1.60; 1,152 sq. yds. granite block paving, per sq. yd., $2.00; 1,450 sq. yds. concrete sidewalk, per sq. yd., 90 cts.; 1,450 sq. yds. brick sidewalk, per sq. yd., 55 cts.; 2,000 lin. ft. granite curbing, 6 x 24, per lin. ft., $1.10; 2,000 lin. ft. concrete curbing, Wainright patent, per lin. ft., 80 cts.; granite coping, per lin. ft., $4.48; 800 lin. ft. reinforced concrete coping, per lin. ft., $1.25; 4,882 sq. yds. street macadam, per sq. yd., 90 cts.; 2 "I" basin plates, each, $82; all plaster coat, per sq. yd., 18 cts.; 150,000 ft. lumber in place, per M. B. M., $25; brick masonry, per cu. yd., $14; vitrified brick masonry, per cu. yd., $18; rubble stone masonry, per cu. yd., $6; 6,500 cu. yds. concrete in place, per cu. yd., $4.96; maintenance of railroad traffic, complete, $6,000; 9,875 cu. yds. earth excavation, per cu. yd., 50 cts.; 5,925 cu. yds. loose rock excavation, per cu. yd., 60 cts.; 23,700 cu. yds. solid rock excavation, per cu. yd., 65 cts. Totals: Proposition 1—(includes granite and block paving only), $146,053; Proposition 2—(includes macadam paving only), $140,194.

*OUTFALL SEWER.—Baltimore, Md.—Itemized bids were received as follows on Nov. 7 by the Board of Awards for constructing outfall sewer, Sections 1 and 2:

Section 1: (A) M. A. TALBOTT & CO., Baltimore (awarded contract); (B) David Peoples, 1000 Betz Bldg., Philadelphia, Pa.; (C) P. Flanigan & Son, Lexington and Calvert Sts., Baltimore; (D) Chas. L. Stockhausen, Baltimore:

BIDS RECEIVED ON NOV. 7 FOR OUTFALL SEWER, SECTION 1, BALTIMORE, MD.

| | (A) | (B) | (C) | (D) |
|---|---|---|---|---|
| 3,885 lin. ft. excavation and refill in trench or tunnel for 10′ 9″ × 12″ horseshoe-shaped sewer | $14.40 | $28.00 | $42.00 | $123.000 |
| 50 cu. yds. rock excavation in trench | 5.00 | 4.00 | 2.00 | 6.50 |
| 50 cu. yds. rock excavation in tunnel | 6.00 | 7.00 | 2.00 | 10.00 |
| 728 cu. yds. excavat'n and refill for Bellmouth | .80 | 2.00 | 3.50 | 3.00 |
| 880 cu. yds. embankment | .10 | .50 | .35 | 1.00 |
| 25 cu. yds. extra excavation | 2.00 | 3.00 | 6.50 | 2.10 |
| 25 cu. yds. gravel refill | 2.50 | 2.50 | 4.00 | 2.50 |
| 925 cu. yds. ordinary brick masonry in Portland cement | 16.00 | 10.00 | 14.50 | 19.50 |
| 25 cu. yds. vitrified brick masonry in Portland cement | 20.81 | 25.00 | 23.00 | 25.00 |
| 5,000 cu. yds. "Class A" concrete msnry (1:2:4) | 9.50 | 14.00 | 12.50 | 18.00 |
| 4,000 cu. yds. "Class B" concrete msnry (1:2:5) | 8.50 | 12.00 | 11.75 | 17.50 |
| 100 cu. yds. reinforced concrete masonry | 12.00 | 15.00 | 20.00 | 50.00 |
| 2 cu. yds. dimension stone masonry | 20.00 | 20.00 | 16.00 | 9.00 |
| 100 lin. ft. 6″ underdrain | .30 | 1.00 | 1.00 | .23 |
| 200 lin. ft. 8″ underdrain | .40 | 1.00 | 1.50 | .30 |
| 1,000 lin. ft. 10″ underdrain | .50 | 1.40 | 1.75 | .38 |
| One 8″ bevel connection | 2.00 | 4.00 | 1.75 | 1.00 |
| One 10″ bevel connection | 2.25 | 5.00 | 2.50 | 1.35 |
| One 12″ bevel connection | 2.50 | 5.00 | 3.00 | 1.80 |
| One 15″ bevel connection | 2.75 | 6.00 | 4.00 | 2.30 |
| One 18″ bevel connection | 3.50 | 7.00 | 4.50 | 3.00 |
| One 24″ bevel connection | 4.50 | 10.00 | 5.00 | 5.75 |
| 10 lin. ft. 8″ stand-pipes | 2.00 | 2.00 | 2.00 | .22 |
| 10 lin. ft. 10″ stand-pipes | 2.50 | 3.00 | 2.25 | .30 |
| 10 lin. ft. 12″ stand-pipes | 4.00 | 4.00 | 2.50 | .45 |
| 10 lin. ft. 15″ stand-pipes | 5.00 | 5.00 | 2.75 | .60 |
| 10 lin. ft. 18″ stand-pipes | 6.00 | 6.00 | 4.00 | .76 |
| 70 M. ft. B. M. sheeting left in place | 20.00 | 25.00 | 65.0 | 80.00 |
| 5 M. ft. lumber in foundation | 45.00 | 45.00 | 70.00 | 80.00 |
| 100 lin. ft. piles in place | .80 | .30 | .70 | .45 |
| One siphon | 3,000.00 | 9,000.00 | 7,500.00 | 5,000.00 |
| 6 manhole heads and covers in place | 15.00 | 15.00 | 18.00 | 25.00 |
| 116 galvanized wrought-iron manhole steps | .27 | 1.00 | .25 | .50 |
| Total amount of bid | $161,822 | $254,914 | $307,971 | $378,863 |
| Number of working days required for completion | 350 | 350 | 450 | 600 |

Section 2: (A) M. A. TALBOTT & CO., Baltimore (awarded contract); (B) David Peoples, 1000 Betz Bldg., Philadelphia, Pa.; (C) P. Flanigan & Son, Lexington and Calvert Sts., Baltimore; (D) Sanford & Brooks, 15 South St., Baltimore; (E) James Keelty, 320 East Oliver St., Baltimore; (F) Chas. L. Stockhausen, Baltimore:

BIDS RECEIVED ON NOV. 7 FOR OUTFALL SEWER, SECTION 2, BALTIMORE, MD.

| | (A) | (B) | (C) | (D) | (E) | (F) |
|---|---|---|---|---|---|---|
| 3,092 lin. ft. excavation and refill in trench or tunnel for 11′ 0″ × 12′ 3″ horseshoe-shaped sewer | $12.00 | $20.00 | $38.00 | $43.75 | $49.50 | $67.00 |
| 50 cu. yds. rock excavation in trench | 5.00 | 4.00 | 2.00 | 2.00 | 4.00 | 6.50 |
| 50 cu. yds. rock excavation in tunnel | 6.00 | 6.00 | 2.00 | 3.00 | 15.00 | 10.00 |
| 2,672 cu. yds. embankment | .10 | .50 | .35 | .60 | .15 | 1.00 |
| 25 cu. yds. extra excavation | 2.00 | 3.00 | 6.50 | 1.50 | 1.50 | 2.10 |
| 25 cu. yds. gravel refill | 2.50 | 2.50 | 4.00 | 2.50 | 1.00 | 2.50 |
| 747 cu. yds. ordinary brick masonry in Portland cement | 16.00 | 12.00 | 14.50 | 11.50 | 15.25 | 19.50 |
| 20 cu. yds. vitrified brick masonry in Portland cement | 20.81 | 25.00 | 23.00 | 13.50 | 20.00 | 25.00 |
| 4,053 cu. yds. "Class A" concrete masonry (1:2:4) | 9.50 | 14.00 | 12.50 | 11.00 | 9.10 | 18.00 |
| 3,277 cu. yds. "Class B" concrete masonry (1:2:5) | 8.50 | 12.00 | 11.75 | 10.00 | 8.15 | 17.50 |
| 10 cu. yds. reinforced concrete masonry | 12.00 | 15.00 | 20.00 | 15.00 | 16.50 | 50.00 |
| 2 cu. yds. dimension stone masonry | 20.00 | 20.00 | 16.00 | 15.00 | 20.00 | 9.00 |
| 100 lin. ft. 6″ underdrain | .30 | 1.00 | .50 | .50 | .30 | .23 |
| 200 lin. ft. 8″ underdrain | .40 | 1.50 | 1.50 | .65 | .40 | .30 |
| 1,000 lin. ft. 10″ underdrain | .50 | 1.75 | 1.75 | .75 | .60 | .38 |
| One 8″ bevel connection | 2.00 | 2.00 | 1.75 | .50 | 3.10 | 1.00 |
| One 10″ bevel connection | 2.25 | 3.00 | 2.50 | .65 | 4.15 | 1.35 |
| One 12″ bevel connection | 2.50 | 4.00 | 3.00 | .80 | 5.20 | 1.80 |
| One 15″ bevel connection | 2.75 | 5.00 | 3.50 | 1.10 | 6.92 | 2.30 |
| One 18″ bevel connection | 3.50 | 6.00 | 4.00 | 1.30 | 8.90 | 3.00 |
| One 24″ bevel connection | 4.50 | 10.00 | 4.50 | 1.75 | 15.65 | 5.75 |
| 10 lin. ft. 8″ stand-pipes | 2.00 | 2.00 | 2.00 | 1.15 | 1.68 | .22 |
| 10 lin. ft. 10″ stand-pipes | 2.50 | 3.00 | 2.25 | 1.50 | 2.08 | .30 |
| 10 lin. ft. 12″ stand-pipes | 4.00 | 3.00 | 2.50 | 1.80 | 2.50 | .45 |
| 10 lin. ft. 15″ stand-pipes | 5.00 | 4.00 | 2.75 | 2.75 | 3.00 | .60 |
| 10 lin. ft. 18″ stand-pipes | 6.00 | 5.00 | 4.00 | 3.50 | 3.99½ | .76 |
| 55 M. ft. B. M. sheeting left in place | 20.00 | 25.00 | 35.00 | 30.00 | 20.00 | 80.00 |
| 5 M. ft. B. M. lumber in foundation | 45.00 | 40.00 | 70.00 | 45.00 | 36.00 | 80.00 |
| 100 lin. ft. piles in place | .80 | .30 | .70 | .45 | .40 | .45 |
| 100 sq. yds. slope paving | 2.00 | 1.50 | .60 | .85 | 2.00 | 4.00 |
| 7 manhole heads and covers in place | 15.00 | 15.00 | 18.00 | 25.00 | 14.00 | 25.00 |
| 92 galvanized wrought-iron manhole steps | .27 | 1.00 | .25 | .50 | .25 | .50 |
| Total amount of bid | $119,237 | $201,386 | $225,543 | $226,882 | $233,128 | $362,629 |
| Number of working days required for completion | 350 | 350 | 425 | 350 | 365 | 500 |

**For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 192.**

## DREDGING.

Mt. Pulaski, Ill.

Public notice is hereby given that the undersigned Drainage Commissioners of Lake Fork Special Drainage District in the County of Logan and State of Illinois will receive sealed bids until 12 o'clock noon, December 13th, A. D. 1906, when the same will be publicly opened at Law Office of Frank L. Tomlinson, Mt. Pulaski, Logan County, Illinois, for dredging or cleaning out Lake Fork, beginning at what is known as "The Forks" and continuing down stream to the Elkhart and Mt. Pulaski, bridge, or for a distance of 16.83 miles. The approximate quantities of earth to be removed is 749,385 cubic yards. A certified check or cash deposit in the sum of $2,500.00 must accompany each bid. If certified check is given, it must be upon some bank in Logan County, Illinois, the same to be retained until contracts are awarded and executed. Bond, with approved security, in a sum equal to one-half the amount of contract will be required of the successful bidder, failing to furnish which, within fifteen days after award of contract, will forfeit the deposit made with bid. Detailed plan and specifications for the work are on file with the Clerk, George T. Lucas, Mt. Pulaski, Illinois, or may be seen at the office of A. B. Alexander, City Engineer, Decatur, Illinois.

Dated this 8th day of November, A. D. 1906.

W. E. BIRKS,
GEORGE T. LUCAS,
J. W. H. WILLIAMS,
Drainage Commissioners of Lake Fork Special Drainage District, Logan County, Illinois. 21-3t

## PUMPING ENGINE.

Chicago, November 22, 1906.

Sealed proposals will be received by the city of Chicago until 11 a. m., Saturday, December 22, 1906, at room 224, city hall, for furnishing general and detail drawings and all tools, labor, and material necessary to construct, transport, and erect complete ready for operation in the Lake View pumping station, located at Montrose and Clarendon Avenues, in the city of Chicago, one (1) vertical triple expansion condensing self-contained crank and flywheel pumping engine, such engine to have a capacity of 25,000,000 United States gallons of water per 24 hours, according to plans and specifications on file in the office of the Department of Public Works of said city, room 325, city hall.

Proposals must be made out upon blanks furnished at said office, and be addressed to said department, indorsed "Proposals for Pumping Engine, Lake View Pumping Station," and be accompanied with seven thousand dollars in money or a certified check for the same amount on some responsible bank located and doing business in the city of Chicago and made payable to the order of the commissioner of public works.

The commissioner of public works reserves the right to reject any or all bids.

No proposal will be considered unless the party offering it shall furnish evidence satisfactory to the commissioner of public works of his ability, and that he has the necessary facilities, together with sufficient pecuniary resources, to fulfill the conditions of the contract and specifications, provided such contract should be awarded to him.

Companies or firms bidding will give the individual names, as well as the name of the firm, with their address.

WM. L. O'CONNELL,
22-4t Commissioner of Public Works.

## PAVING.

Tulsa, Ind. T.

Sealed proposals will be received by the City of Tulsa, Ind. T., at the office of the City Recorder, up to 12 o'clock noon, December 7, 1906, for the construction of approximately 15,630 yds. of vitrified brick paving, 1,514 ft. of cement curb and 7,000 yds. of excavations. Specifications and blank forms may be had at the office of the City Engineer at the City Hall, Tulsa, Ind. T. No bids will be considered unless accompanied by a certified check for $1,000. The City reserves the right to reject any and all bids.

W. D. ABBOTT,
Recorder of the City of Tulsa, Ind. T.
Tulsa, Ind. T., Nov. 16, 1906. 21-3t

## WATER-WORKS.

Fort William, Ont.

Sealed tenders, addressed to the undersigned and endorsed "TENDER FOR WATER-WORKS," for the construction of Section 3 of the Loch Lomond Water Supply will be received up to 6 o'clock P. M. on Saturday, December 15th, 1906.

The work will consist of about five hundred feet, thirty-six (36) inch steel intake pipe, 4,500 feet of concrete-lined tunnel, 4,000 cubic yards excavation, concrete forebay, valves, etc.

Forms of tender may be obtained and plans and specifications inspected at the office of H. S. Hancock, Town Engineer.

The lowest or any tender not necessarily accepted.

A. McNAUGHTON, Secretary,
Board of Water and Light Commissioners.
Fort William, Nov. 21, 1906. 22-2t

## RESERVOIR AND SEWAGE DISPOSAL PLANT.

Harrisburg, Pa.

Sealed proposals will be received at the Governor's Office, Harrisburg, Pa., until 12 o'clock, noon, Wednesday, December 12th, 1906, for the erection of Main and Connecting Corridors, Reservoir, and Artesian Wells and Sewage Disposal Plant pertaining to the Institution for Feeble Minded and Epileptic, near Spring City, Chester County, Pa.

Bids will be opened in the reception room of the Executive Department in the presence of the public by the Commission appointed to erect the institution. Plans and specifications showng location, etc., may be obtained at the office of the Architect, Philip H. Johnson, 1825 Land Title Building, Philadelphia, Pa., by depositing the sum of $100.00, which will be refunded upon the return of the plans and specifications. Bids from others than those engaged in actual business in the general branches therein mentioned will not be entertained or considered.

The Commission reserves the right to accept as a whole or in part, or reject any or all bids, as may be deemed best for the interests of the Commonwealth. 22-2t

## PUMPING ENGINES.

Chicago, November 22, 1906.

Sealed proposals will be received by the city of Chicago until 11 a. m., Saturday, December 22, 1906, at room 224, city hall, for furnishing general and detail drawings and all tools, labor, and material necessary to construct, transport, and erect complete ready for operation in the Roseland pumping station, to be located at 104th Place and Stewart Avenue, in the city of Chicago, four (4) vertical, triple expansion condensing self-contained, crank and flywheel pumping engines, each engine to have a capacity of 25,000,000 United States gallons of water per 24 hours, according to plans and specifications on file in the office of the Department of Public Works of said city, room 325, city hall.

Proposals must be made out upon blanks furnished at said office, and be addressed to said department, indorsed "Proposals for Pumping Engines, Roseland Pumping Station," and be accompanied with $25,000 in money or a certified check for the same amount on some responsible bank located and doing business in the city of Chicago and made payable to the order of the commissioner of public works.

The commissioner of public works reserves the right to reject any or all bids.

No proposal will be considered unless the party offering it shall furnish evidence satisfactory to the commissioner of public works of his ability, and that he has the necessary facilities, together with sufficient pecuniary resources, to fulfill the conditions of the contract and specifications, provided such contract should be awarded to him.

Companies or firms bidding will give the individual names, as well as the name of the firm, with their address.

WM. L. O'CONNELL,
22-4t Commissioner of Public Works.

Office of the President of the Borough of Richmond, Borough Hall, St. George, New Brighton, New York City.

Sealed bids or estimates will be received by the President of the Borough of Richmond at the above office until 12 o'clock M. on

THURSDAY, DECEMBER 27, 1906,
Borough of Richmond.

No. 1. For furnishing plans for the foundations, buildings, runway, connecting flues and chimney of a refuse destructor to be built at West New Brighton, in addition to furnishing all plans, specifications, supervision, labor, materials and appurtenances necessary for the erection and completion of the furnace and steam boiler portion of the proposed West New Brighton destructor at West New Brighton, Borough of Richmond, the City of New York, U. S. A.

For full particulars see "City Record."

GEORGE CROMWELL,
President.
The City of New York, November 16, 1906. 22-2t

DEPARTMENT OF THE INTERIOR, OFFICE OF SUPERINTENDENT U. S. CAPITOL BUILDING AND GROUNDS, Washington, D. C., November 21, 1906.—Pursuant to the directions of the Commission of the House of Representatives, etc., advertisement is hereby made for sealed proposals (in duplicate) for the furnishing and erection of apparatus to completely equip the Heating, Lighting and Power Plant for the Capitol Building and other buildings, which apparatus will consist of engines, generators, switchboards, boilers, pumps, condensers, steam fitting and all other necessary appliances to connect the same in the several parts, and for complete substation apparatus for the various buildings. Proposals for the first section of the work, that is, for prime movers and generators and substation apparatus and complete switchboard equipment therefor, will be received and opened at the above office on Wednesday the 26th day of December, 1906, at twelve o'clock, noon, and publicly opened. Subsequent proposals will be received for the other apparatus, and the date of opening will be stated in the specifications. Applications for plans and specifications may be made at once, and the issuance will be in the discretion of the Superintendent. Bidders will be required in the first instance to furnish with their proposal a certified check or surety bond in the sum of five per cent. of the amount of their bid. A certified check in the sum of $50.00 will be required as a guarantee for the return of plans and specifications. The right is reserved to reject any or all bids, and to waive technicalities and informalities. ELLIOTT WOODS, Superintendent U. S. Capitol Building and Grounds. Approved: E. A. HITCHCOCK, Secretary. 22-4t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., November 26, 1906.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 2d day of January, 1907, and then opened, for the construction (including heating apparatus, electric wiring and conduits) of the extension to the U. S. Post Office at Wausau, Wisconsin, in accordance with the drawings and specification, copies of which may be had at this office, or at the office of the Custodian at Wausau, Wisconsin, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 22-2t

## PAVING.

Atlantic City, N. J.

Sealed bids or proposals, endorsed "Proposal for Street Paving," with the name of the person or corporation making the bid, will be received by the City Council at Council Chambers in the City Hall at the hour of 3.30 o'clock p. m., Monday, December 10, 1906, during a session of City Council.

The City Engineer's estimate of the work to be done under the above title is the furnishing, setting and laying of:

43,270 sq. yds. 6" Macadam Pavement, including excavation and preparation of sub-foundation.
18,270 sq. yds. 12" Telford Pavement, including excavation and preparation of sub-foundation.
26,320 sq. yds. Vitrified Fire Clay Block Pavement and Gutters, including excavation and concrete foundation.
670 cu. yds. Concrete not covered by block pavement.
36,000 ft. B. M. lumber.
37,000 lin. ft. straight 5" x 16" granite curbing furnished and set (not including concrete supports).
2,011 lin. ft. curved 5" x 16" granite curbing 10' R. furnished and set (not including concrete supports).
289 lin. ft. curved 5" x 16" granite curbing 2' R. furnished and set (not including concrete supports).
11,000 lin. ft. straight 4" x 16" Bluestone curbing furnished and set.
63 lin. ft. curved 4" x 16" Bluestone curbing 10' R. furnished and set.
25 lin. ft. curved 4" x 16" Bluestone curbing 8' R. furnished and set.
25 lin. ft. curved 4" x 16" Bluestone curbing 4' R. furnished and set.
232 lin. ft. curved 4" × 16" Bluestone curbing 2' R. furnished and set.
500 lin. ft. of curbing reset.
100 holes cut in granite curbing.

Samples of paving block and granite in conformity with the requirements fully set forth in the Notice to Contractors, must be deposited with the bids.

The proposal must be accompanied by a certified check upon a National or State Bank or Trust Company drawn to the order of Albert Beyer, City Treasurer for the sum of Five Thousand Dollars ($5,000.)

Surety company bond will be required in the sum of one-half of the contract price for the entire work based upon the estimated quantities herein given.

The City Council reserves the right to reject any or all bids if it shall deem it for the public interest so to do.

Blank forms of proposal, and printed envelopes in which bids will be required to be submitted, and further information, if required, can be obtained upon application at the office of the City Engineer, Room 622 Bartlett Building.

WALTER J. BUZBY,
JAMES B. REILLY,
JOHN S. WESTCOTT.
SAMUEL S. PHOEBUS,
THOMAS H. THOMPSON.
Street Committee of City Council.
J. W. MACKNEY, City Engineer. 22-1t

## TUNNEL.

COMMONWEALTH OF MASSACHUSETTS.—Metropolitan Sewerage Works.—Notice to Contractors.—Sealed proposals will be received at the office of the Metropolitan Water and Sewerage Board, 1 Ashburton Place, Boston, Mass., until 2.30 P. M. of Friday, December 14, 1906, for constructing in rock and earth tunnel, part of Section 85 of the Extension of the High Level Sewer, South Metropolitan System, in Commonwealth Avenue and Warren Street, Brighton, in accordance with the forms of contract and specifications to be furnished by the Board. Some particulars are estimated to be as follows: Length, 1,200 feet; inside diameter of sewer, 69 inches by 72 inches; 60 cubic yards of Portland brick masonry; 1,400 cubic yards of concrete masonry in tunnel. The invert of the tunnel is from 28 feet to 55 feet below the street surfaces. Plans can be seen and specifications and forms of contract can be obtained at the above office. Each bid must be accompanied by a certified check for two thousand dollars ($2,000), payable to the Commonwealth of Massachusetts, and a bond in the sum of eight thousand dollars ($8,000) will be required from the successful bidder. The Board reserves the right to reject any or all bids. HENRY M. SPRAGUE, HENRY P. WALCOTT, JAMES A. BAILEY, JR., Metropolitan Water and Sewerage Board. WILLIAM M. BROWN, Engineer Sewerage Works. WILLIAM N. DAVENPORT, Secretary. 22-1t

U. S. ENGINEER OFFICE, Room F-7, Army Building, New York, N. Y., November 28, 1906.—Sealed proposals for dredging in Bronx River and East Chester Creek, N. Y., will be received at this office until 12 M., December 28, 1906, and then publicly opened. Information furnished on application. D. W. LOCKWOOD, Col., Engrs. 22-4t

## AIR COMPRE[SSOR].

Ft. Worth, Tex.

Proposals will be received [by the] signed, acting for the City [of Ft.] Water-Works Department, on [Dec.] 15, 1906, at 2 p. m., for one [3,000,000-gallon high duty] cross-compound, two-stage air [pumps.] auxiliaries.

The right to reject any or all bids is reserved by the City, and to accept the proposal considered by them to be best [suited] to the City's requirement.

Full information may be obtained by addressing the undersigned.

C. G. HARROLD, Chairman;
E. P. MADDOX,
R. L. ARMSTRONG,
Water-Works Committee.
Nov. 24, 1906. 22-2t

## BRIDGE.

Charleston, W. Va.

Notice is hereby given that the City of Charleston, West Virginia, in connection with the Kanawha Valley Traction Company will receive bids for a new highway and traction railway bridge over Elk River on the line of Virginia Street, Charleston, West Virginia, up to eight o'clock P. M., Thursday, December 27, 1906, at the office of the City Recorder, in the Council Chamber.

Plans and specifications may be seen at the office of the City Recorder.

The City reserves the right to reject any and all bids.

J. F. HUDSON, Chairman;
D. A. BRAWLEY,
SAMUEL STEPHENSON,
Bridge Committee.
Charleston, W. Va., Nov. 21, 1906. 22-2t

## PUMPS.

Ft. Worth, Tex.

Proposals will be received by the undersigned, acting for the City of Ft. Worth, Water-Works Department, on Dec. 15, 1906, at 2 p. m., for two 3,000,000-gallon high duty pumps.

The right to reject any or all bids is reserved, and to accept the proposal considered by them to be best suited to the City's requirements.

Full information as to condition of service may be obtained by addressing the undersigned.

C. G. HARROLD, Chairman;
E. P. MADDOX,
R. L. ARMSTRONG,
Water-Works Committee.
Nov. 24, 1906. 22-2t

## REINFORCEMENT OF POWER HOUSE.

Sault Ste. Marie, Mich.

Charles D. Warren and Clarence M. Brown, Joint Receivers of The Michigan Lake Superior Power Company.

Sealed proposals will be received at the office of the General Manager of The Michigan Lake Superior Power Company, Sault Ste. Marie, Ontario, until 1 o'clock P. M. of Monday, December 17, 1906, for constructing the Reinforcement of the Power House of The Michigan Lake Superior Power Co. at Sault Ste. Marie, Michigan. The Reinforcement will consist of the construction of a watertight Forebay about 1336 feet long and about 75 to 200 feet wide, and of forty inclined cylindrical buttresses (thirty-four 5 ft. 0 ins. and six 5 ft. 6 ins. in diameter). Further information for intending bidders, forms of proposal and of contract, specifications and plans may be seen and can be obtained at the office of the Chief Engineer, Sault Ste. Marie, Ontario.

The Receivers reserve the right to reject any or all proposals, and to accept the proposal deemed for the best interests of The Michigan Lake Superior Power Company.

CHARLES D. WARREN,
CLARENCE M. BROWN,
Joint Receivers of The Michigan Lake Superior Power Company.
W. B. SAWYER, General Manager.
L. M. DAVIS, Chief Engineer. 22-2t

## SITUATIONS OPEN

STRUCTURAL DRAFTSMAN in consulting engineer's office. Only applicants having experience in designing mill buildings will be considered; give full particulars as to past experience, references and salary wanted. Address "L. A. 22," Engineering News, New York. 22-1t

WANTED—Young engineers with good experience in the construction of mill appurtenances connected with industrial railway supplies, by large concern in Pittsburg. Address "K. A. 22," Engineering News, New York. 22-1t

DRAFTSMAN on general industrial plant extension. Furnaces, mill buildings, pumping layouts, machinery repairs. State age, experience, initial salary and references. Address "I. A. 22," Engineering News, New York. 22-3t